



ComfortClient

Revision History

Version 5.1.6.2 – 17 July 2016

ARCHITECTURE

- Microsoft .NET 4.6.1 console application developed under Visual Studio 2015 Pro
- Tested on Windows 7, 8.1 and 10

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.107, File System – 34
- UCM/Eth3 Firmware – 7.084

BUG FIXES/CHANGES

- Object Matrix incorrectly requested counter 255 (C?FF) on start-up.
- RIO Outputs overlapped normal outputs during decode instead of being offset by 128.
- When opening the “Log File Monitor” the last entry was not automatically scrolled into view.

NEW FEATURES

- None

Version 5.1.5.7 – 12 July 2016

ARCHITECTURE

- Microsoft .NET 4.6.1 console application developed under Visual Studio 2015 Pro
- Tested on Windows 7, 8.1 and 10

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.107, File System – 34
- UCM/Eth3 Firmware – 7.084

BUG FIXES/CHANGES

- Migration from Visual Studio 2013 Community Edition to 2015 Pro IDE.
- Switch from .NET 4.5 to .NET 4.6.1. ComfortClient, Floorplan Editor plus the Application, Email and GSM4 (standard connectors) are uplifted to .NET 4.6.1, other connectors and plugins continue to run on .NET 4.5 until their next releases respectively.
- General code refactoring for improved logic and performance.
- ComfortClient now attempts to re-logout after system or UCM reset (RS or RSXX).
- The UCM Type on the SS command is now decoded.
- Logout with Debug Mode enabled, when no plugins are loaded, would cause an exception and ComfortClient would close.
- On 64bit operating systems, the 64bit version of FTD2XX.DLL would be installed even though the application is 32bit, leading to “Attempting to load FTD2XX.DLL...” dialog box at start-up.
- Updated version of the embedded Infracore Licensing code.
- Improve Floorplan Tab Activity update and clear cycle. Reduce Tab flickering as much as possible.
- Updated Event Log decode with additional parameters now passed from Comfort.
- Updated decode module types in SS command to now include Types 129 and 130, IRIO and TSM extended module types respectively.
- ASM01 (Arduino Sensor Module by Ingo) type added to TSM decode.
- The “Is Temperature?” checkbox is now unlocked for Comfort Sensor types on floorplan objects because sensors can now report more than just temperatures.
- Occasional “Permission denied for user..” errors when closing ComfortClient when signed in.
- Sensor Object Types now implement the “Is16Bit?” checkbox.
- Debug Monitor window now auto scrolls to last entry to keep it in focus.
- Sensors and Counters now decode negative values correctly.

NEW FEATURES

- Support decode of TSM and HIO module types.
- Support decode of “EL”, EOL Shunts, command to log file/monitor.
- Support decode of HIO command replies (H?) and reports (H#), command to log file/monitor.
- Add “Activate Now!” button to the Time Programs Window.
- Add “Log File Monitor” on Information menu; shows a real-time view of the log file data written during the current ComfortClient session.
- Extended ValueTransform property for floorplan Label & Gauge objects, allows Comfort Sensor values too be converted relative to a “reference value” (for Analogue Input conversion).
- A “Reset Colour Palette” button added to the Debug Monitor window to allow the auto-selected items colours to be re-selected.

Version 5.1.4.7 – 4 July 2015

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2013 Community Edition
- Tested on Windows 7, 8.1 and 10 (RC)

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.077, File System – 34
- UCM/Eth3 Firmware – 7.071

BUG FIXES/CHANGES

- ClickResponses do not action at runtime for Shape objects.
- The decode value for CounterFlags (to value 0 or 1) would affect other Counter objects with the same Object ID.
- In Floorplan Editor the RotateHandle is now not considered when initially selecting the object. Also when an object is selected the Rotate Handle is now moved closer to the object boundary to improve selection when objects are placed very close together.
- Improvements to the validation configuration logic for ClickResponses in Floorplan Editor. ClickResponses cannot be enabled unless they are validated successfully.
- For image objects (on/off images) linked to CounterFlags with state set to on/off would not toggle the image correctly at runtime; “ON” was incorrectly determined as 255 instead of any value > 0.
- Fix trailing carriage return on each decoded response inadvertently added in new buffer parsing logic in the last release and that skewed the log file formatting.
- Monitor filters did not always work correctly if no filter checkboxes were checked.
- Screen does not update if ClickResponse is used without a tooltip.

NEW FEATURES

- None.

Version 5.1.3.5 – 28 June 2015

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2013 Community Edition
- Tested on Windows 7, 8.1 and 10 (RC)

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.077, File System – 34
- UCM/Eth3 Firmware – 7.071

BUG FIXES/CHANGES

- Fix incorrect decode text in logfile for RD and WD/WE commands.
- Protect against rogue data packets being sent to ComfortClient from the UCM that are not parsable to the correct ie <STX>data<CR>. Noticed when for example Bus Monitor does not stop correctly in Comfigurator and ComfortClient is connected but not signed in.
- Activity Level Bulk Action in Floorplan Editor is simplified and scope widened to encompass new object types (ie plugins) and states now available.
- Flag, Zone, Output, X10 & CounterFlag did not display the value on objects of type Label; instead the static text value was used. Historically by-design; this is now incorrect given the increased flexibility in the configuration and usage of label objects.
- Refactoring and improvements to the network input buffer parsing algorithm.
- In Floorplan Editor the last entry in the ValueFormat dropdown was duplicated. Change "{Prf}OFF -- {Prf}RAMP -- {Prf}ON" to "{Prf}OFF -- {Prf}ON" (for duplicate).
- Flag, Zone, Output, X10 & CounterFlag objects now support ValueFormat.
- Improvements to the logfile cleanup check.
- Other, general, low risk refactorings.
- Help file updated to reflect changes.

NEW FEATURES

- None.

Version 5.1.2.1 – 14 June 2015

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2013 Community Edition
- Tested on Windows 7, 8 and 8.1

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.076, File System – 34
- UCM/Eth3 Firmware – 7.069

BUG FIXES/CHANGES

- Object Clone in Floorplan Editor did not deep clone Action Points correctly. They'd be still tied to the source object until the editor was restarted (at which point they'd fully separate).
- Print Preview, Print & Object Matrix menu items did not enable/disable based on lock/unlock UI and configuration menus persistence settings respectively for ComfortClient.
- The Installer now creates an empty "Connectors" folder; this prevents the user data folder migration logic from erroring on first run after install.
- Refactored the MRU list code in FloorplanEditor for better storage in the registry.
- Cannot update the ShapeFactory if its DLL is open; occurs when starting Floorplan Editor from within ComfortClient as the latter already has this file open. The update will be deferred to the next restart of ComfortClient or ignored depending on the user choice.
- Improve handling of messageboxes during startup so that they are always topmost rather than at times hidden behind the splashscreen.
- If you choose NOT to apply a ShapeFactory update it will not be prompted further until the next version becomes available. To reset so that this update is prompted again, use the "Restore Updater Checks" menu item on the ShapeFactory menu.
- Minor help tooltip fixes and additions.

NEW FEATURES

- None.

Version 5.1.1.31 – 31 May 2015

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2013 Community Edition
- Tested on Windows 7, 8 and 8.1

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.076, File System – 34
- UCM/Eth3 Firmware – 7.069

BUG FIXES/CHANGES

- Shape node points were not recalculated if you changed the shapes size using the locX, locY, Width, Height fields in Object Properties; they would change if the shape was resized using the resize glyphs though.
- Most Recently Used (MRU) list for ShapeFactory did not filter out duplicates.

NEW FEATURES

- None.

Version 5.1.1.30 – 31 May 2015

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2013 Community Edition
- Tested on Windows 7, 8 and 8.1

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.076, File System – 34
- UCM/Eth3 Firmware – 7.069

BUG FIXES/CHANGES

- Send-to-Back, Bring-To-Front was ignored for Linear Gauge object types in Floorplan Editor.
- Object Report in Floorplan Editor now hides Tabs containing no Objects.
- Object Tooltip now shows in Floorplan Editor when hovering over an Object.
- Improved mouse selection accuracy on Object grab handles in Floorplan Editor.
- In Floorplan Editor, hit testing of rotated objects nested inside another object would sometimes incorrectly pick the wrong object when using the new selection method introduced in the last release. In addition this newer selection methodology has been improved further to improve hits.
- In Floorplan Editor rubberband selection would sometimes fail to correctly identify rotated objects.
- Max Object border width property is changed from max 10 to 255.
- Updated OpenXML API from 2.0 to 2.5.
- Updated Sauntinsoft RTF-to-HTML API from 4.5.4.8 to version 5.0
- The Rotation Centre handle does not show now until you first hover over the Rotation Handle; this makes it easier to drag smaller items around without the rotation centre accidentally triggering. It hides again automatically when the object selection is cleared.
- ClickResponses of type “Output” did not send the command to comfort when clicked at runtime.
- Changing the Object state value from OFF to ON/OFF and then changing the ClickResponse values for type OUTPUT would cause an exception.
- Cloning an Object in Floorplan Editor did not create a new initial Object Name; the “Friendly” name of the object.
- License checks are now also added to Floorplan Editor (needed for ShapeMe).
- In Floorplan Editor Object Properties, Object State is now available for Gauges and Plugins. A state other than “” (empty) will set the objects visibility at runtime. An addition empty (“”) state is added to the Object State dropdown for when a statically visible object is required.
- Decode for the CS command did not correctly decode the state property.
- Improve performance of System Information by only requesting serial numbers for Modules that exist.
- Added decode for future KP04A and KP06A keypads.
- Fixed an obscure internal exception “catch” in filename full path when an image picture box is missing; does not affect the user but internal code clean-up best practice.
- Fix GroupID was “Misc” instead of “MISC” on a couple of decodes.
- Added decodes for RD and WD/WE.
- Updated .NET Checking for Later .NET versions; 4.5.1, 4.5.2, 4.6 etc
- Added “Connected” and “Disconnected” Event hooks to the Plugin Framework API.

- Extended ValueTransforms adding "{Value}*10", "{Value}*100", "{Value}*1000" for Counter Objects.
- Important: ValueTransforms are now applied BEFORE temperature and percentage conversions.
- Added "Disconnected" status to Plugin Framework API "GetLogonStatus" function.
- ObjectMatrix now displays and decodes 16 bit counters correctly and they can be set in HEX mode. The minimum value for decimal "Set" Sensor changed to -32768 (was -32767).
- Add RIO type 254 for Ingo Arduino project.
- Change Lock/Unlock UI window title to be in context.
- Fix CM command was sent during refresh when feedback type is also blank instead of "None" in Home Control menu; will reduce time to refresh.
- In object Properties, all object types (Pictures, Labels, Gauges, Shapes) now observe the rotation property when showing small and large previews.
- Label previews now also observe the Opacity property in Object Properties; previously hardcoded to 100 percent.
- Fix issue in B? decode where it didn't audibly announce the state.
- Object Search in Floorplan Editor now includes Shape Templates.
- Fix error starting Floorplan Editor if the Blank.xml floorplan file is missing; it is now created.
- Copying an object to the clipboard in Floorplan Editor and then deleting it may cause an exception when trying to paste the clipboard object later.
- New Sample files installed with later releases did not update the installed versions in the older release if the Data Directory had been moved from its default C:\ProgramData\ComfortClient location.

NEW FEATURES

- New extensible Floorplan Shape Factory is introduced. Shapes are classed as either "basic" or "room" types; both can be influenced by a central Template Manager. The Shape factory is updatable online (can be turned off in via Options Panel) via the FuturehomeSoftware website to automatically incorporate newly introduced shapes when Floorplan Editor is started.
- New ShapeMe! Help Desk system. Use ShapeMe! to log new Requests for additional Shapes or enhancements to existing ones. Use it also to log new bug and enhancement Requests for ComfortClient as a whole.
- Print Preview and Print menu actions are added to Floorplan Editor and ComfortClient; this will print the current state of the floorplan selected and can include runtime data snapshots.
- Adding a new Object to the Floorplan will not open the Object Properties window when the SHIFT key is held down. This aids the fast addition of objects to the Floorplan.
- Rotation menu items added to Floorplan Editor; you can now rotate in 90 or 180 increments or return to zero rotation or reset the rotation point back to centre. The same buttons are available in object Properties so you can quickly rotate objects on creation.
- "Back One" and "Forward One" are now available to change order of objects in the z-Order in increments of one. Works with multi-selections too.
- In the Object Matrix, cells can now be selected or de-selected via mouse double-click.
- Implement decode of the b?00 (Query all zones bypass state) command from UCM firmware v7.069 onwards.
- In Floorplan Editor, custom colours set in colour dialog are now saved to the FloorplanEditor config file so that can be used across all Floorplans again later in the colour selector dialog.
- Sensors can now use ValueTransforms.

Version 4.1.7.5 - 17 Jan 2015

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2012
- Tested on Windows 7, 8 and 8.1

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.068, File System – 34
- UCM/Eth3 Firmware – 7.061

BUG FIXES/CHANGES

- System Refresh now uses the “r?” command if available to refresh ALL Counters and Sensors at the point of first logon. If the command is not available (not supported in current system Firmware) then the legacy “smart refresh” mode will be performed.
- CM command would be sent on refresh for every Control Menu item even when set to “None”.
- New Boolean on Objects for 16 bit Counters & Sensors where percentages are concerned.
- Conditions now support 16 Bit Counter & Sensor values.
- Check for Control Menu State (CM) and “All Flags” Query (f?00) support now resets when Comfort connection details are changed as assumes connection to another system.

NEW FEATURES

- Implemented 16 bit Counter Support.
- Implemented decode of the Sequential Registers Query (r?) command.

Version 4.1.6.6 - 25 Aug 2014

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2012
- Tested on Windows 7, 8 and 8.1

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.059, File System – 34
- UCM/Eth3 Firmware – 7.049

BUG FIXES/CHANGES

- The authenticated Windows user (domain\user) is now written to ComfortClient and Floorplan Editor splashscreen, monitor window and log file. Splashscreen message box now has scroll.
- New version 4.5.4.8 of the RTF-to-HTML conversion component.
- Additional checks against “rogue” plugins sending invalid data to ComfortClient.
- Setting the inner or outer radius to zero on a Circular Gauge Range Set would cause an exception in Floorplan Editor Object Properties.
- Linear gauges did not correctly reset the ScaleFace Colour 2 property when “Fixed” scale type was selected in Floorplan Editor Object Properties. It should be the same as ScaleFace Colour 1.
- Selecting objects in FloorplanEditor has changed; hold down the SHIFT or CTRL key to select multiple objects, otherwise the new shape will be selected and the previous deselected.
- Improved selection of objects that are nested inside other objects on the floorplan.

NEW FEATURES

- A new “Deselect All” (objects) action is added to the main menu, toolbar and right-click context menus.

Version 4.1.5.7 - 23 Aug 2014

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2012
- Tested on Windows 7, 8 and 8.1

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.059, File System – 34
- UCM/Eth3 Firmware – 7.049

BUG FIXES/CHANGES

- Plugin whitelist was not evaluated correctly for some plugin author Public Keys where the key bytes contains leading zero's. Principally these affected Plugins by Ingo.
- Numeric values passed as strings from Plugins when updating floorplan objects that have 1 or more leading zero's are left as strings whilst those without leading zero's are considered numeric.
- Event Log query replies were not sent to plugins; DataMonitor etc were thus unable to display.
- Event Log fetch progress bar would error if more than the max expected number of event log entries are received from Comfort. For example 600 are expected for ULT but some Comfort firmwares currently bursting a few over that maximum; probably a bug but ComfortClient needs to handle this unexpected condition cleanly.
- Event Log tooltip displayed when the cursor was moved over an entry longer than the current display width would flicker as the mouse was moved.
- Version History is now stored in Open XML (.docx format) for better application compatibility and the document style has been improved for easier navigation.
- ObjectID would be greyed out for Plugins in Floorplan Editor Object Properties when reopening an existing object.
- The ESC and END keys only operate when the "Connection" tab is now selected and if the keypad keys 0-9 are used to enter the user code the tab will automatically be selected. This helps prevent accidental logouts.
- Placeholder Selector throws an exception when selected if there is only one object on the floorplan.
- Setting a different windows language region in could sometimes cause an exception when loading the plugin Whitelist on ComfortClient start-up and you would be prompted to manually accept each plugin.

NEW FEATURES

- Plugin framework API extended to allow plugin main and status menus to be hidden.
- Version History (.docx format) Open XML Word format file can now be opened from the main menu.
- The load warning for unauthorised plugins can now be suppressed via the "Ignore Start-up Warning" on each Plugin in Plugin Manager.

Version 4.1.4.11 - 27 Jul 2014

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2012
- Tested on Windows 7, 8 and 8.1

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.056, File System – 34
- UCM/Eth3 Firmware – 7.048

BUG FIXES/CHANGES

- An “ArgumentOutOfRangeException: Value of ‘0’ is not valid...” exception is returned when opening Window Manager. It occurs when the Scan Seq # is zero in the config file though how this occurs is currently unknown.
- Outbound Service Events are now run under a separate threadpool to safeguard against hangs/delays in specific connectors affecting the main decode thread.
- Initial Decode of “WE” command such that it does not appear in the unhandled log.

NEW FEATURES

- New Object Matrix monitoring window to display common object values in real-time. Open multiple windows to display different object types concurrently. Matrix and Monitor (list) views. Select (via right mouse-click or rubberband) and update (all except zones) one or more values in Comfort. View and input values in hex or decimal notation.

Version 4.1.3.5 - 8 Jun 2014

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2012
- Tested on Windows 7, 8 and 8.1

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.056, File System – 34
- UCM/Eth3 Firmware – 7.048

BUG FIXES/CHANGES

- Cbus1 format Template ClickResponses did not decode correctly in Floorplan Editor object properties when the Action was of “switch” type; the Application would default to “Lighting”.
- Fixed “Object not set to an Instance of an object” error in log file during load of Connector Services.
- During connection retries (Ethernet) the UI state is now changed to lock out any buttons/menu options that would otherwise try to use the failed connection (Send Command, System Information, Refresh etc).

NEW FEATURES

- The Home Control menu now supports right-click on a node action to execute it.

Version 4.1.2.8 - 1 Jun 2014

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2012
- Tested on Windows 7, 8 and 8.1

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.056, File System – 34
- UCM/Eth3 Firmware – 7.048

BUG FIXES/CHANGES

- License changes (Install/uninstall) via the ComfortClient main menu “Information\License Management” menu action did not update the run mode (Eval or Full) until the application was restarted.
- ComfortClient window icon replaces stock icon on some Infralution authentication windows.
- Updated Connector Framework API (you need to update all ALL connectors after moving to this release).
- Internal code refactoring for improved CCLX file read.
- Internal code refactoring to better handle connector developments.
- Event Safeguards are enabled by default for new Events (max 1 event in 60 seconds) for safety. Change as required.
- Resizing rotated objects would also move their origin. Now the Origin is locked to the handle directly opposite the handle being dragged such that the object correctly stays in position.
- The Events tree tab in Floorplan Object Properties is now expanded by default even if there are no currently configured connections.
- In Floorplan Object Properties, the ID lists for Comfort were not sorted in numerical order (of ID) by default.
- Comfort firmware revision, as read from the CCLX (“Discovered” was OK) file and as shown in red in the System Information window whilst the discovered versions are being requested was incorrectly shown in format X.xx instead of the correct X.xxx notation.
- AutoSave (enabled/Disabled) option was not saved to the configuration file.
- ENTER key would not have focus during keyboard entry of password in ComfortClient after a previous wrong code had been entered and the CONNECT button subsequently pressed.
- Cbus1 & Cbus2 action code sequences incorrectly included a zero prior to the last terminating byte (255) for Application types other than Lighting (type 56) for Switch Off (1) and On(121) actions.

NEW FEATURES

- Connector Framework extended to allow sending of commands to Comfort and checking of status; for new GSM4 Connector.
- Floorplan Object rotation point can now be moved (but only when the object is at zero degrees at the moment).
- GSM4 Connector now included in standard distribution package.

Version 4.1.1.25 - 5 May 2014

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2012
- Tested on Windows 7, 8 and 8.1

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.056, File System – 34
- UCM/Eth3 Firmware – 7.046

BUG FIXES/CHANGES

- Update Checkers switched to call HTTPS based url.
- Opening Condition Manager from the Object Properties window in FloorplanEditor (via the “Filter” icons) and renaming any Visibility or Sound Filters already selected (in the dropdown lists) would blank that filter as the dropdown lists are updated.
- Fix resolution of placeholders would stop when the first placeholder resolver error was found such that subsequent placeholders were left unconverted. Now the error will be shown before the placeholder that errored in format “[1]...conversion error....{..Placeholder}”
- Added word-wrap to Tooltip attributes in Floorplan Object Properties.
- UCM decodes updated with later modules; CBUS2, KNX2, Honeywell PHC, eHomeGreen etc.
- Initial decode support for new “Lu” command. If UCM replies with “Lu00” and user is not logged in it will be assumed an incorrect user code.
- The "User Logout.....Please Wait!" status message would sometimes not clear correctly on logout or disconnect.
- Fixed status bar would sometimes show user as logged on even when logged off for up to 1 minute.
- In FloorplanEditor, Connectors & possibly Plugins (depends on what the author has defined) can also now advertise updates in the menu bar. ComfortClient can already do this for Plugins & Connectors are also added this release.
- Initial basic decodes for “TT”, “A?”, “OV”, “OQ”, “id”, “PR”, “v?” and “ST” commands.
- More detailed decodes for existing “a?” and “AL” commands in support of the extra bits added in later firmwares.
- Serial Number decode added to System Information.
- Query Refresh does now not query module versions; this is done when System Info is checked. This speeds up refreshes.
- Number of Keypads decoded is increased to 15 to match Comfort firmware.
- The Query All Flags (f?00) command now supports decode of 256 flags.
- Floorplan refresh will now use the f?00 command instead of individual Flag queries if it is available in the Comfort firmware used.
- Refactoring’s aimed principally for performance improvement where possible.

- New Connector Framework is added. Connectors are interfaces to external applications and services that are triggerable through events raised by a floorplan object. Conditions are used to trigger events and protection (“Safeguards”) are built-in to prevent event saturation. Some “Standard” connectors will be shipped in the ComfortClient whilst others “Optional” will be available through separate installers:

“Standard” Connectors include:

- Email
- Application

“Optional” Connectors (separate installers) include:

- SQL Server
- MySQL

- New licence activation system, using a commercial licencing component, has been added to ComfortClient. Only the core ComfortClient application needs activation, other modules such as FloorplanEditor, Plugins & Connectors remain open. The activation system included support for Trial periods and the licences are activated against a PC name. Note the licence metadata determines how many PC’s, any expiry date etc that apply to the licence.
- New Object Placeholder Selector & Preview on object attributes that support placeholders. This makes placeholder selection much more visible and easier to configure.
- New Option in ComfortClient and FloorplanEditor (“Display Adverts”) to show or suppress online update notifications in the main menu bar respectively.
- Support for Cbus2 in Template ClickResponses.
- New Debug Monitor window/function added for internal testing and debugging and it may be used in the progression of technical support cases.
- Works with the new dual port feature of the UCM/Eth3 so multiple ComfortClients on different 2 difference PC’s can connect to the same Comfort UCM.

Version 3.2.2.2 - 3 Oct 2013

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2012
- Tested on Windows 7 and 8

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.033, File System – 34
- UCM05 Firmware – 7.023

BUG FIXES/CHANGES

- None.

NEW FEATURES

- The Plugin WhiteList will now self-update from the futurehome website if an update is found. The download includes checksum to preserve file integrity.
- ComfortClient & Floorplan Editor now have settings under OPTIONS to enable/disable automatic online checking for Application and WhiteList updates respectively. They are enabled by default. Note that even when the Application Updates option is disabled, you can manually still check for updates via the main menu item “Check for Updates”.

Version 3.2.1.42 - 8 Sep 2013

ARCHITECTURE

- Microsoft .NET 4.5 console application developed under Visual Studio 2012
- Tested on Windows 7 and 8

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.033, File System – 34
- UCM05 Firmware – 7.023

BUG FIXES/CHANGES

- New installer technology. Application is now migrated to a new framework and Visual Studio version.
- Gauge needles, whose centre point was positioned outside of the objects bounds, would appear on top of the gauge border instead of behind it in the z-order.
- Preview Image Label in Floorplan Object Properties always showed as “Off” for single state objects.
- In FloorplanEditor Drag & Drop of multiple images onto Floorplan could error on copy of the dragged files to the images folder if they were in use.
- The default sort order of Object ID’s in FloorplanEditor is now by the number (was name). An icon next to the dropdown list can be used to toggle sort by name or number.
- In FloorplanEditor Object Properties, runtime images for Picture Objects can only be now set for Plugins (ie not available for COMFORT & SYSTEM module types).
- In Plugin Manager “Forum Name” and “URL” links on the Authorised Plugins window now respectively open the target’s URL in a browser session.
- In WindowManager, inserting or deleting windows with lower index than the home page defined didn’t update the home page index to preserve it’s position.
- Cross-thread exception could occasionally occur Setting Activity Tab Tooltip.
- New Extensions to Framework:
 - Host function “GetIDUsage”. This function reports back with a list of where ID’s are used across Floorplan Objects, ClickResponses, Floorplan & System Conditions.
 - Client Event “After Client Refresh”; this event fires after a ComfortClient Refresh has completed and all sent commands have responded back.
 - Client Event “Log Off Initiated”; this event fires after a logoff has been requested but before it is sent. This allows plugins to do any final writes to Comfort etc before logout actually fires (see also new two extensions).
 - Host function “SetPluginFeatures”. This function will be extended over time. At the moment one feature can be set, “Features.LogoffWaitRequired”; this notifies ComfortClient that this plugin required a period of grace before any logout.
 - Host function “SendPluginEvent”. This function will be extended over time. At the moment one event can be set, “PluginEventCode.ReadyToLogout” to signal to ComfortClient that this plugin has completed logout tasks prior to the expiry of “LogoffDelay”.
 - Host function “AdvertiseUpdate”. This function allows the plugin to advertise the existence of a software update in the ComfortClient UI.
- Picture files are now not kept open in filesystem after they have been read by ComfortClient. This will allow the images folder to be moved under program control.

- Data files Folders (Configs, Flooplans, Images, GaugePacks & Logs) are now installed by default to the “c:\ProgramData” folder”. Note the ProgramData folder is hidden by default so you need to make visible in Windows Explorer (Folder Settings) if you want to see the files there.
- The Data Files can now be moved to an alternative location (ie not ProgramData).
- Copy/Paste now works between floorplans in Floorplan Editor. Note: the objects must be selected at the time the next Floorplan is opened.
- For “Target” values in Condition Manager that had decimal places, these were not saved such that when the condition was re-opened the value was converted back to an integer. Integers were also compared at runtime when the conditions were evaluated. For decimal “Targets” the comparison now rounds and matches to the Condition Manager UI settings (3 dec. places max).
- Fixed C to F (and vice-versa) conversion was incorrect for plugin data value received.
- Floorplan Objects set by plugins should be set to the default value set at runtime rather than “” (blank) when the “Clear” update action is performed.
- ConditionManager can now be opened from within object properties by clicking the filter icon next to the filter dropdown; ConditionManager will open with the dropdown filter selected.
- Close Popup on ComfortClient Close is now removed. It is largely redundant now that logoff countdown is shown in the status bar if needed.
- Fixed issue where plugin value passed to sound module incorrectly included the pre/post fixes such that sound was flagged non-numeric and thus invalid.
- Updated the Object Report in Floorplan Editor to include new attributes.

NEW FEATURES

- Template ClickResponse for UCM/Universal added; support for “Commands to Device” and RAW message strings supported for this UCM type.
- Support “Output” ClickResponses.
- Multi-Object Copy & Paste in Floorplan Editor.
- Object Rotation is now added for all object types.

Version 3.1.8.2 - 9 May 2013

ARCHITECTURE

- Microsoft .NET 4 (Client Framework) console application developed under Visual Studio 2010
- Tested on Windows 7 and 8

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.026, File System – 34
- UCM05 Firmware – 7.016

BUG FIXES/CHANGES

- Disable red “X” button on Lock/Unlock window.
- Activity Tabs could be cleared when UI was locked.
- Removed redundant menu shortcut key that launched Smartfit mappings.
- Added some missing shortcut keys for Information menu.
- Update Check is now moved to a separate thread.

- CounterFlag objects only triggered to “ON” state on a received value of “FF” (255) instead of triggering at any value greater than zero.
- ComfortClient could fail to start if the optional DocumentFormat.OpenXml.dll was missing from the folder where ComfortClient is installed. This was caused by an over aggressive code obfuscation setting.
- ComfortClient would perform an update check twice at start-up.

NEW FEATURES

- None.

Version 3.1.7.14 - 21 Apr 2013

ARCHITECTURE

- Microsoft .NET 4 (Client Framework) console application developed under Visual Studio 2010
- Tested on Windows 7 and 8

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.026, File System – 34
- UCM05 Firmware – 7.016

BUG FIXES/CHANGES

- The panel in the Menu bar that toggles Keypad & ControlPad visibility now moves when the splitter distance is changed such that it always centres with the Keypad. Other toolbars such as the browser control keys (when visible) also move accordingly.
- Update Checker would cause an exception if the update site could not be contacted. Improved Timeout logic when no network connectivity; set to 5 seconds.
- Changed the format of the keep-alive packet(s) sent on TCP network connection.
- The “NA” response is now not written to the “Unhandled” log file.
- The Smartfit Counter mapping configuration is moved from the main configuration menu to the Smartfit Tab on the ControlPad. The Smartfit Tab will hide if no UCM/Smartfit hardware is found. This simplifies the support for this old legacy discontinued UCM as now all configuration is kept in one location.
- Exit from the Smartfit Counter Mappings form does not now execute a refresh cycle unless the counter mappings have been changed.
- The default Window Tab Activity icons have now been updated.
- Keypad/ControlPad toggle saved state may not processed correctly on start-up.

NEW FEATURES

- Animated Picture files (multi-frame images i.e. GIFs) are now supported in ComfortClient. In FloorplanEditor the images are static on the Floorplan but animated in Object Properties.
- Basic support for “SS” report; it no longer shows as an unhandled decode. The status is decoded to a number but currently not the textual description (which can be manually looked up in the idstatus.cfg file) given mostly these are generated by design changes in Configurator only.
- The Window Tab Activity icons can now be changed.

Version 3.1.6.31 - 24 Feb 2013

ARCHITECTURE

- Microsoft .NET 4 (Client Framework) console application developed under Visual Studio 2010
- Tested on Windows 7 and 8

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 7.015, File System – 34
- UCM05 Firmware – 7.009

BUG FIXES/CHANGES

- Opening FloorplanEditor from within ComfortClient didn't correctly pass/set the CCLX file in the Editor.
- [Experimental]: Updated u? decodes to include SWX (HW not yet released nor format of messages published!).
- Solid improvements to rendering performance floorplan picture objects.
- CM command was not decoded (references appeared in "comfortclient.unhandled.log") as should have been identified as "cm" rather than "CM".
- Polled Control Menu updates are now replaced by status driven updates when "cm" responses are available via latest firmware.
- A "cm" status report with status value "FF" would show as "no status" in the ComfortClient log file.
- Disconnecting the LAN cable from the PC during a connected session to UCM would cause an endless retry loop. Disconnecting the LAN cable from the UCM end did correctly function though.
- ComfortClient floorplan backgrounds flickered on main application resize if the background was an image (solid colour backgrounds were OK).
- Object types for X10 did not correctly set the Object ID in floorplan Editor Object Properties.
- Change of ClickResponse Infrared Type properties didn't dirty the change flag.
- Play of a sound could cause an exception under certain circumstances. This would be trapped internally (invisible to UI) but sound would not play.
- Log files are now written in Unicode; needed for future compatibility with Obfuscation.
- FloorplanEditor rulers refreshed strangely on load of a new floorplan.
- DoubleClick an item in Editor Search results to open the Object Properties window.
- Options to run (or not) ComfortClient post installation are now added to the Installer. The default is to start ComfortClient which would be useful if you have invoked the installation via the "Check for Update" button in the already open ComfortClient UI.
- FloorplanEditor blank window will now open at last screen (including multi screen) location.
- ComfortClient Window size is now shown in the Status bar.
- Smartfit Tab & Configuration are removed from the UI if no Smartfit UCM is found.
- Home Control and Custom Tabs now redesigned:
 - Now remembers last expanded state during refresh.
 - Now preserve highlighted node when other Tabs selected.
 - Select and double-click to action directly in tree. Execute buttons thus removed.
 - Tooltips show Response/Description when hover over entries

- The Home Control Tree was not correctly rebuilt if the CCLX file was changed from the Main Menu; tree items could include those from the previous CCLX as clear down was not complete.
- The CCLX file can now be changed whilst signed in or connected.
- Dropdown Tooltip on Connection Info Status dropdown (Connection Tab) did not position correctly for long lists. The tooltip is now anchored to the dropdowns base location. The tooltip also now wraps if the string is long.
- Picture Preview (Large and Small versions) now incorporates other attributes; border, opacity, rounding etc
- System Info would only display discovered data for modules that were also defined in the CCLX file. Now will display any newly discovered items as well.
- Sensor Response decodes may have incorrectly reported window activity and log entries for plugins object types.
- Single state objects (“Off”, “On”) now report to log file and activity tab logs for any reported state; previously they’d only showed for a decoded value matching that state; ie if object state was “Off” on a “Zone” object you’d only get a log entry for a received value of zero (0) and nothing for one (1).
- A Tooltip is now shown on an EventLog item if the value is longer than the available line length.
- Various ongoing code refactoring for code clarity and performance.

NEW FEATURES

- New Online Update Checker added to Menu in ComfortClient & FloorplanEditor. Checks for latest version online when the application starts and will show discretely in the title bar if any are available.
- Multi-state Picture Objects are now supported:
 - COUNTER decodes support “Off/On/Ramp” state - 3 Images
 - All other valid Picture decodes support “Off/On” state – 2 Images
- Label Objects for Comfort Counter Types now allow the same “states” as pictures plus an additional “RAMP” state. This is important as these NOW control whether the label is displayed or not. Visibility can still also be set by a condition and if set this condition will override the STATE setting. This change reflects the “special status” that Comfort Counters have in reporting the status of external devices (such as lighting) and to make the display of pictures and labels more aware of these states.
- New Object Tooltip; will show on mouse hover (incl. different cursor) of the object at runtime. Will be superseded by a ClickResponse Tooltip if necessary.
- ClickResponse (and Object) Tooltips can now be created (at design time) with embedded placeholders which will be replaced at runtime with the referenced attribute/property. Placeholders take the form {ObjectName:ObjectProperty, “FormatSpecifier”, “SpecialFlags”}. The “FormatSpecifier” is optional as is the object name (assumed to be current object if omitted). “ObjectName” is the “Name” field on the object which now must be unique and not contain spaces or any reserved characters; curly brackets, colon or comma. More on this in the help documentation. More on format specifiers can be found at [http://msdn.microsoft.com/en-us/library/dwhawy9k\(v=vs.71\).aspx](http://msdn.microsoft.com/en-us/library/dwhawy9k(v=vs.71).aspx).

Examples:

- {Value} – Value of current object
- {OfficeLamp:Value, “X4”} – Shows the property “Value” on object “OfficeLamp” in uppercase hexadecimal format padded to 4 bytes.
- {KitchenDoor:Value} – Shows the property “Value” on object “KitchenDoor”.

- {FrontDoor:Value,"P2","/N"} – Shows the property “Value” on object “FrontDoor” as a percentage to 2 decimal places and the “/N” switch forces to numeric chars only in the result (otherwise the “%” symbol would be added).
- New Monitor window (floating) in FloorplanEditor for messages and errors (similar to monitor panel in ComfortClient but as a floating window).
- New (per object) customisable Trackbar slider at runtime for objects that include RAMP state. Customisable 70+ properties can be changed from the default if required.
- Support for B? & CS Responses.
- ControlPad (and Tabs) now scale vertically as the main window is resized.
- New splitter feature to enable change of Right-hand panel (Keypad/ControlPad) width. ControlPad Tabs either resize or are centre justified if fixed content. Keypad (fixed content) will auto centre at the top of the window. Splitter state is preserved on exit.

Version 3.1.5.14 - 24 Oct 2012

ARCHITECTURE

- Microsoft .NET 4 (Client Framework) console application developed under Visual Studio 2010
- Tested on Windows 7 and 8

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 6.028, File System – 34
- UCM05 Firmware – 6.028

BUG FIXES/CHANGES

- Scroll bars now correctly appear in FloorplanEditor when the editor panel is smaller than the size of the floorplan.
- Value Transforms were incorrectly enabled for SENSORS when object type is Circular or Linear Gauge.
- Value Transforms did not work correctly for COUNTERS for object types Label, Circular and Linear Gauges.
- In FloorplanEditor, tabs for unrelated object properties are now suppressed. For example when editing a LABEL object, tabs for PICTURE and GAUGE are now hidden.
- Holding down SHIFT key whilst dragging selected objects in FloorplanEditor, either by key or mouse dragging, will show just the outline. For improved performance on low spec systems.
- Improved support for BPXX command.
- UI minor font corrections (“Segoe UI” is standard).
- Flag Names were not written to the log file.
- Two log entries were written (incorrectly) to the log file for each bitwise command received; for Y?, y?, Z?, z? & f?.
- Shorten time for Splashscreen to show at startup for ComfortClient and FloorplanEditor.
- Improved startup. ComfortClient & FloorplanEditor are now NGEN’d on startup to pre-compile the application for faster startup.
- A Drag & Drop exception would occur if you attempt to open FloorplanEditor when no Floorplan Tabs are added in ComfortClient and the OK button is selected in the pop-up message that suggests redirection into WindowManager.
- System Sounds is now moved to a new playback thread to improve performance.

NEW FEATURES

- Holding CTRL key down during ComfortClient application launch disables plugin load. The “-X” command line switch also does the same.
- Holding SHIFT key down during ComfortClient application launch disables AutoConnect (if otherwise normally set to auto connect). The “-A” command line switch also does the same.
- Start-up time now displayed in monitor and log files.
- New right-click menu on floorplan tab:
 - Clear Tab Log
- Entry/Exit delay countdown is now shown on the status bar. Note: this is for guidance only and accuracy will depend on how quickly the trigger message (countdown start) is passed to ComfortClient over the UCM connection.
- Progress bar added to FloorplanEditor splashscreen. The “-P” command line startup switch added to suppress the progress bar on startup if required.
- System Info window now can be resized vertically. The maximum size depends on the number of modules discovered.
- System Info data can now be saved to a text file.
- Added new Search Object feature in FloorplanEditor.
- Rounded Borders are now available on all object types for “Fixed Single” and “Custom” border types. Note: You can use this feature with appropriately sized rounding values to create circle objects too!

Version 3.1.4.3 - 29 Aug 2012

ARCHITECTURE

- Microsoft .NET 4 (Client Framework) console application developed under Visual Studio 2010
- Tested on Windows 7 and 8

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 6.022, File System – 34
- UCM05 Firmware – 6.028

BUG FIXES/CHANGES

- ComfortClient and FloorplanEditor will ignore the MaxLogfileAge setting (and delete all but today’s logfile) if a log message is written before the ComfortClient Config file is read.
- Support changes Cytech made to the CCLX keywords for network connection setting from Configurator 3.5.x onwards which prevented ComfortClient from correctly reading the Connection Type and Network Port number respectively.

NEW FEATURES

- None.

Version 3.1.3.30 - 28 Apr 2012

ARCHITECTURE

- Microsoft .NET 4 (Client Framework) console application developed under Visual Studio 2010

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 6.020, File System – 34
- UCM05 Firmware – 6.019

BUG FIXES/CHANGES

- Object Level Defaults dropdown for “Auto” setting in Floorplan Activity Settings form also incorrectly included itself; “Auto”.
- Exception could occur if the Window Tab Activity Tooltip is being updated during logout.
- Changed System Information to cater for greater number of Slaves in recent firmware. Slaves would overrun into the door station table section otherwise.
- The u? incorrectly reported subtype 6 as a KP04 instead of a KP06.
- The HELP File now opens in the last opened screen position.
- Improved the locking logic in ComfortClient when objects are updated from different threads.
- When opening Floorplan Editor inside ComfortClient the UI does not now block as the Editor now runs on its own thread. When changes are made in the Editor and saved the Floorplans will refresh as usual (because the Editor was started from within the Client). Data feeds were also incorrectly halted whilst inside the Editor but now fixed. The ComfortClient UI is also now completely available for navigation when in the Editor.
- The Target Result items in Condition Manager are now numeric spin boxes for types “COUNTER” and “SENSOR”. Others types remain as dropdown boxes.
- Allow for Eth02 firmware now disconnecting the connection on logout.
- Fix error on exit that ComfortClientConfig.xml file was already being used by another process.
- Modules are now correctly shown in System Information when subtype is zero; principally affected Doorstations which otherwise don't have a subtype.
- System and Floorplan Conditions Module has now been completely re-written to include support for plugins.
- Floorplan Condition functionality is changed such that as soon as a condition item is updated the whole condition will be re-evaluated and the Floorplan Object(s) impacted immediately updated. Previously the condition was re-evaluated but the affected objects not updated until the value of that object was subsequently updated.
- Improved Floorplan rendering logic dramatically reduces the number of unnecessary refreshes to increase performance.
- The *Sound* and *Go-Home* menu actions on the ComfortClient *Application* Menu now adhere to the persist-configuration-menu option and will grey out accordingly with logon state if this option is set.
- Added option to disable/enable Tibbo connection checking; useful when connecting from the Internet (rollup patch from last 3.1.2.20 release) and you don't want to open firewall for UDP port 65535.
- Changing Condition Name in ConditionManager did not rename and instances used on Gauge Objects. Improved the determination logic in this area too.
- Changed UI for ConditionManager; plugins can now be used in conditions.

- System Information (Information\Comfort Modules) would request updated values from Comfort even though a Refresh was currently in progress and contrary to the message displayed.
- A net socket (Eth UCM only) exception could occur if you pressed “UCM logoff” and “Disconnect” buttons in sequence very close together.
- Removed restriction whereby “Comfort Modules” could not be selected from the menu whilst a system refresh was in progress. Also renamed to “Comfort System Info”.
- User announced at logon (Sound) was not converted from HEX value; e.g. User 16 was incorrectly announced as “User 10”
- Exception in WindowManager if you selected a floorplan in the properties section without first adding a tree node; now the properties section is disabled until you adds tree nodes.
- In WindowManager the tree node buttons (to the right) would sometimes not correctly enable after the last tree node was deleted.
- The Home Page was not reset correctly in WindowManager when the node in the tree it was connected too had been deleted.
- The Home Page was not moved with the Window when the tree node was moved UP/DOWN.

NEW FEATURES

- New Plugin framework architecture for ComfortClient. The major focus for this release is an extensible architecture for authors who wish to develop plugin functionality for ComfortClient. Security and reliability have been fundamental drivers in the development of the architecture. Users can control plugin privileges and whitelist checking is used to allow only authenticated plugins to load.
- Time Programs are now supported. Time Programs are read from Comfort, can be modified and saved back to Comfort if changed.
- Reminder Messages are now supported. Reminder Messages are read from Comfort if the firmware supports the query command, can be modified and saved back to Comfort if changed.

Version 3.1.2.20 - 29 Oct 2011

ARCHITECTURE

- Microsoft .NET 4 (Client Framework) console application developed under Visual Studio 2010

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 6.006, File System – 34
- UCM05 Firmware – 6.012

BUG FIXES/CHANGES

- Improved highlight selection on Monitor & Event Log list boxes; highlighted test is now white on blue for better clarity.
- Filters applied to SystemSounds could error on ComfortClient load for Zone, Output and Flag types used in condition criteria; i.e. where the result value chosen was On/Off or True/False.
- Selection handles are now shown correctly when selecting an object that is partially obscured behind another (foreground) object.
- A selected object which is completely hidden behind a foreground object can now be dragged.
- Maximum Zone (Z?) and Outputs (Y?) are now increased to 96.
- Maximum RIO Inputs (z?) and Outputs (y?) are now increased to 120.
- Improved decode logic for the compressed responses via threading; for f?, y?, z?, Y? and Z?.
- In Floorplan Editor the *Set CCLX* menu action (*File* menu) is moved to the *Settings* sub menu.
- Added Event Log decode for unknown Event types.
- Fixed exception when FLFFnn response is received.
- Increased Flags to 256 to support future Comfort firmwares.
- In System Sound Manager {Value} property was not available when changing sound phrase.
- Beep sound is now replaced by Windows System Sound equivalents (Beep, Exclamation etc).
- Connection Tab details were missing/corrupted in the Help file.
- Changing the border to none on a Floorplan Picture Object did not correctly refresh the image until the floorplan was saved and reopened.
- Snap to grid did not work.
- Sound On/Off menu action did not correctly check for sound files present.
- Improved handling of wrong/invalid user code entered.
- Further internal code refactoring.

NEW FEATURES

- Tooltip and background colours now added to “Last Alarm State” dropdown on the Connection Tab in ComfortClient.
- Configurable windows scan on mouse/keyboard inactivity in ComfortClient.
- Can now set a “Home Page” Window Tab in Window Manager which is selected when the ComfortClient starts up.
- Jump to “Home Page” Window Tab on mouse/keyboard inactivity in ComfortClient.
- Jump to Window Tab based on the result of a condition.
- ComfortClient Installer, main executable and associated assemblies (DLLs) are now Microsoft Authenticode signed to improve code security and authenticity.
- A maximum age option can now be set to delete log files automatically as they age out. Applies to both ComfortClient and FloorplanEditor log files.
- Query All Flags (f?0x) is implemented.
- Added new *Options* menu action to Floorplan Editor *File\Settings* menu.
- In Floorplan Editor, ClickResponses now include an Infrared Template.

Version 3.1.1.52 - 27 Aug 2011

ARCHITECTURE

- Microsoft .NET 4 (Client Framework) console application developed under Visual Studio 2010

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 6.005, File System – 34
- UCM05 Firmware – 6.008

BUG FIXES/CHANGES

- Installer incorrectly directed the user to the .NET 3.5 SP1 download instead of the correct .NET 4.0 Client Profile web installer download.
- Checking the IP Address override for UCM/Eth based connections caused an exception when the override is checked. Restarting ComfortClient then causes the same exception.
- Change of CCLX (in disconnected state) also updates connection properties.
- Change of Smartfit Counter mappings didn't request a data refresh.
- Corrections/additions in the Help File.

NEW FEATURES

- None.

Version 3.1.1.51 - 26 Aug 2011

ARCHITECTURE

- Microsoft .NET 4 (Client Framework) console application developed under Visual Studio 2010

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 6.005, File System – 34
- UCM05 Firmware – 6.008

BUG FIXES/CHANGES

- Improved object border resolution and colour accuracy.
- Connection settings are initially checked (as far as possible) for validity when the Connect button is pressed.
- Control menu tree on Home Control tab used to refresh status values every 60 seconds. Now it also refreshes immediately any of the status values change.
- Corrected minor digit version decodes for "U" and "u" commands. The new UCM firmware for example decoded as 6.02 whereby it should be 6.002 as per Comfigurator.
- Last write date (Comfigurator to Comfort) and last update/write date of CCLX file now displayed on "CCLX" status bar icon tooltip.
- Key press on main ComfortClient Floorplan area when no window tabs are added cause an "index outside of bounds of array" error.
- The "IsPercentage" checkbox for Label Objects was incorrectly available for Modbus Object Types.
- An attempt to start a second instance of the ComfortClient now displays a cleaner error message.

- Connecting to a target device which was not a UCM could cause the ComfortClient to receive unexpected data resulting in a continual retry loop. The ComfortClient had to be closed to clear.
- Better error reporting when attempting to connect to an unknown target connection.
- Extra attributes added to Floorplan Editor Query report plus support for Linear Gauges.
- C to F and F to C conversions were not calculating correctly on Counter & Modbus Types.
- Modbus plugin queue processing did not stop when connections disconnected prematurely.
- Comfort references used in Floorplan and System Conditions were not correctly queried at logon.
- Logon Code field now only accepts numeric vales and maximum 6 characters.
- Incorrect window could be opened in FloorplanEditor if Window Tab names are the same.
- Inserting a new Floorplan object and cancelling out of the properties window did not clear the status bar selection counter in FloorplanEditor.
- Labels linked to counter responses did not correctly support visibility filter (condition).
- Circular Gauges now support a negative scale number colour property (aligned with Linear Gauges).
- Tab Icon tab clear logic has been improved.
- Activity Tab Reset Time did not have any effect but has now been implemented.
- Visibility filter on Modus Object Types are now supported. Sounds Tab for Modbus Object types is now disabled as functionality is not currently implemented.
- Gauge background images were not tested for validity when loading Floorplans; ie that the image file is located in the \images folder. Missing image placeholders are identified by a red border and cross.
- Improved handling of duress conditions; the discrete “Duress LED” and “See LED” alarm state message now replace messages that contain “duress” so as to not alert intruders to this condition.
- For Network connections, Auto-Connect incorrectly tried to use the last IP address & Port set in ComfortClient rather than the value from the CCLX file, even though the override was not checked.
- CCLX status in status bar did not correctly support the PersistConfigurationMenus option.
- Picture Preview (Large and Small versions) now incorporates other attributes; border, opacity, rounding etc
- Other small UI clean-ups.

NEW FEATURES

- Linear Gauges are now introduced.
- Selection and Copy to Clipboard now available on the Monitor, Monitor Snapshot and Event Log windows. Selection options include conventional Click, Ctrl-Click and Shift-Click combinations to mark one or more items and also “type-based” quick selections (Copy All System, Outbound and Inbound respectively) and any combination thereof.
- Pause button now added to monitor window.
- Added links to ComfortClient forum and License Agreement from Main Menu (Information Menu).
- Circular Gauges now support Caption Text rotation
- GaugePacks now support Caption Text rotation
- UCM/USB connectivity is now supported, including pass-through via KT03.
- UCM/RS232 connectivity is now supported.

- IR Reports are now decoded.
- Attempts to Logon on an established connection which does not have a UCM at the other end now display "No Response from UCM" when a logon attempt is tried.
- License Agreement is now accessible via the Help Menu as is a link to Comfort Forums, ComfortClient section.
- RS response (new in UCM firmware 6.005) now decoded.
- Event Log window now shows decoded entries colour coded (similar to Monitor Log window).
- Event Log can now be saved in OpenXML (docx) and RTF format as well as plain text.
- On attempting to connect to the UCM the ComfortClient now checks the Tibbo module on Eth01/02 daughterboard for any existing connections and warns the user accordingly (Network Connections only).
- Added Most Recently Used (MRU) list to FloorplanEditor File menu.
- Custom and system (windows) colours are now supported on Floorplan Objects.
- Last Alarm State is now shown as a dropdown list (newest first) on the Connection and can be reset via a "Clear" button.
- Linear and Circular Gauges now support visibility and sound filters (conditions).

Version 2.1.1.66 - 27 May 2011

ARCHITECTURE

- Microsoft .NET 3.5 console application developed under Visual Studio 2008

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 5.214, File System – 34
- UCM05 Firmware – 5.228

BUG FIXES/CHANGES

- Added Event Log decodes for Event Codes 27 – 33 as added in a recent firmware update.
- In Floorplan Editor Object properties, the "image layout type" for a gauge with background image defined did not populate the dropdown list correctly.
- Saving a gauge design to a GaugePack in Floorplan Editor, incorrectly added the "Images\" folder path to the gauge background image file name saved in the file. This created an exception if the gauge was then used again during the same editor session. Note: If you created any GaugePacks in version 2.1.1.65 which also include background images then you need to edit the file manually correct these or else the Image will be ignored at load; i.e. if the entry reads *BackgroundImage="Images\myImage.jpg"* then change to *BackgroundImage="myImage.jpg"*.
- Installing ComfortClient without samples did not create the "Configs" folder in new installations.

NEW FEATURES

- None.

Version 2.1.1.65 - 13 May 2011

ARCHITECTURE

- Microsoft .NET 3.5 console application developed under Visual Studio 2008

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 5.214, File System – 34
- UCM05 Firmware – 5.228

BUG FIXES/CHANGES

- Panic or Fire buttons would incorrectly set the minimum size of the ComfortClient if the UI was not locked at the time the button was pressed.
- Save modified (dirty) flag was not set when objects were moved using arrow keys in Floorplan Editor.
- In Floorplan Editor checking “IsTemperature” property checkbox in Object Properties would error (recoverable) for type SENSOR.
- Temperature conversion (Celsius <-> Fahrenheit) properties (on Labels and Gauges) did not read/save correctly in Floorplan Editor.
- Changing the Smartfit counter mappings now forces a counter refresh as a background thread/task on exit.
- Update Floorplan Editor Tooltip help and layout on Object Properties window.
- Conditions did not calculate correctly with some criteria types.
- Ruler and Status bar X/Y coordinates now update when using arrow keys to move single objects.
- Lock/Unlock in Floorplan Editor with immediate exit did not set the modified (dirty) flag.
- New UCM Type 19 (Universal) name now identified correctly.
- Unhandled exception in ComfortClient when selecting a Floorplan tab or with alarm state changes if that tab does not have a valid Floorplan reference/name in Window Manager.
- Improved validation of Image types inserted into Floorplan either via menus or drag-and-drop. The following types are explicitly supported; bmp, gif, ico, jpg, png, tif.
- Improved text rendering for gauge dial numbers.
- Change ClickResponse hover text did not set the modified (dirty) flag.
- Modbus plugin: Help file did not correctly open in Modbus Manager if the latter was opened indirectly from the ComfortClient main or status bar menus.
- ClickResponse Type field was blank instead of “<None>” for newly created objects in Floorplan Editor Object Properties.
- In Floorplan Editor, objects can now be aligned if the “Reference” object (last selected object in the set) is locked and no other “Slave” objects are locked.
- Border properties on Gauges in Floorplan Editor Object Properties were not set correctly when created from GaugePack templates.
- Save GaugeStyle would cause an exception in Gauge Preview if that Gauge was the first saved to the Gauges folder and then subsequently chosen as a template for another created Gauge before leaving (same edit session) the Floorplan Editor.
- In Floorplan Editor opening a new file from the FILE menu did not update the windows header description.
- In Condition Manager moving focus to the condition tree caused the condition items to refresh.

- On starting ComfortClient the focus is now correctly placed in the password field to help keyboard users. On logout the input focus now also returns to this field.
- The ESCAPE and END keys can now be used to logout or disconnect (the RETURN or ENTER keys used to connect or login).
- Disabled conditions are not now checked during runtime condition processing.
- Renaming condition name in Condition Manager did not update corresponding Floorplan or System filter reference(s) respectively.
- ComfortClient connection buttons are now re-enabled when the maximum connection retry count is reached.
- A key press which moved the cursor out of the Floorplan area when a ClickResponse was highlighted did not reset the highlighted object and the ClickResponse was still actioned.
- The CCLX file can now only be changed in ComfortClient when you are logged out and disconnected from the UCM.
- New conditions added in Condition Manager are now given a unique default name; this stops the unique name constraint checking from firing if successive ADD's occur without renaming them.
- Deleting a filter in Condition Manager now also checks for filter references in ComfortClient as well as Floorplan Editor. Also where references are found, the "No" button now correctly aborts the delete rather than deleting the condition but NOT the references.
- In Condition Manager, the current condition was not correctly reselected after sort operation.
- Highlighting the condition name or description text and pressing delete in Condition Manager, would incorrectly delete the condition rather than just the selected text.
- Selecting all Condition Criteria Items in Condition Manager via the title bar ("Select All") checkbox would select all lines but would not clear if individual lines were them unchecked. Also if ALL individual lines are now checked the title bar checkbox also now selects.
- Additional changes in Condition Manager UI to improve performance and usability. Criteria Item table toggle button is removed.
- Tree selection changed in Window Manager and Condition Manager; now supports hot tracking.
- The default sound of an object was always incorrectly announced when activating a ClickResponse on that object.
- User code field is limited to a maximum 6 characters.
- Other miscellaneous minor & cosmetic UI fixes.

NEW FEATURES

- Conditions can now be applied to Static Images (*Image*) and Labels (*Label*). Mirror Sounds can now also be defined for these Object Types.
- Phone Ring is now added to System Sounds and configurable.
- Sound state is now shown in the status bar and can be toggled via this icon.
- Support DST flag in date/time stamp, enabled from UCM 5.228 but not yet supported by Comfort.

Version 2.1.1.50 - 22 Dec 2010

ARCHITECTURE

- Microsoft .NET 3.5 console application developed under Visual Studio 2008

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 5.202, File System – 34
- UCM05 Firmware – 5.212

BUG FIXES/CHANGES

- If a Floorplan image was not found on ComfortClient load the full path rather than the relative path would be written to the monitor and Event logs.
- ComfortClient incorrectly tried to request a refresh from Comfort during FastStart mode, producing a subsequent error in the ComfortClient log file.
- Pressing Cancel to exit the Object Properties window in Floorplan Editor would cause the Toolbar icons to reset to the no object selected state even though the object was still selected.
- Minor change to ComfortClient response handler to trigger Floorplan render only once all requested refresh responses are received (logic moved from DT to S? response).
- In Floorplan Editor selecting all objects, when all are unlocked should show a grey bounding border around all objects rather than Orange one (which is only where at least one object is locked).
- Added Ctrl+Alt+L/Ctrl+Alt+U key support for Lock/Unlock UI menu option.
- Improved usage/consistency of cursor type (icon) when navigating User Interface.
- Improved WaitCursor icon logic on System Information form.
- Save button on Eventlog Tab is now enabled for Fetch events where the cancel button is subsequently pressed. Previously only when fetch was completed in full.
- Cursor now changes to “hand” when over CCLX item in status bar in ComfortClient and FloorplanEditor.
- Minor spelling corrections on Connection Tab.
- Updated Help file.

NEW FEATURES

- None.

Version 2.1.1.47 - 15 Dec 2010

ARCHITECTURE

- Microsoft .NET 3.5 console application developed under Visual Studio 2008

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 5.202, File System – 34
- UCM05 Firmware – 5.212

BUG FIXES/CHANGES

- The Set Comfort Date Time menu item would throw an exception when in a disconnected state.
- ComfortClient Configs, Floorplans & Logs (files) are now relocated from the application root folder to separate named folders respectively. The installer upgrades the folder structure accordingly.
- Selecting Floorplan Editor when there are no Window Tabs added now enters Window Manager automatically (OK) or not (CANCEL) when selected respectively.
- Opening Floorplan object properties in Floorplan Editor threw an exception if the object type was Modbus, a Modbus mapping was selected, but the Modbus plug-in was not installed.
- In Floorplan Editor, selecting the Modbus object type in Floorplan object properties threw an exception if the Modbus plug-in was not installed or if installed but had no mappings configured in Modbus Manager.
- Error during copy of images to the images folder in the Floorplan Editor if the file was already open (locked).
- Floorplan sizes on each panel were incorrectly calculated based on the size of the full Floorplan Editor Window size rather than the size of the used workspace. Unnecessary scroll bars could display as a result. Scrollbar visibility is more intelligent for the selected window tab.
- Filter Conditions were not tested when processing incoming Flag responses.
- Alarm State responses would not correctly set the Floorplan background colour alert if a Floorplan background image was defined as this image took precedence over the background colour. It did partially work with background images (tiled) which had a transparent element.
- Exception during Floorplan load, in the ComfortClient and Floorplan Editor, if the Floorplan background image file was missing from the images folder.
- All objects now support the same border property; previously Label and Gauge border properties used differing strategies and no borders were supported for Picture objects.
- Custom Tab dropdown lists were blank following FastStart and until ComfortClient was restarted.
- Improved rubberbanding and object selection in the Floorplan Editor. You can use any combination of rubberband and click to select/deselect.
- ComfortClient now prompts for CCLX file on start-up if the CCLX file specified in the Client Configuration file cannot be found or opened.
- Aborting an Event Log fetch no longer clears the results panel, but instead displays the results panel so far plus an appended "abort fetch" message. On a complete fetch, a message is now shown appended to the results to indicate the read has completed successfully.
- Connecting to Comfort is now around 10 times faster when the Comfort address field uses an IP address instead of DNS name as the ComfortClient does not need to do a DNS lookup to find the IP address. This typically saves around 5-6 seconds.
- The Monitor Log panel now displays entries colour coded as per snapshot window.
- Improved menu option lockdown based on current selection & editing contexts.

- Output to the Floorplan Activity (Tab) Logs is now suppressed for initial logon and manual refresh.
- On exit from the Floorplan Editor the ComfortClient now checks all loaded Floorplans for changes and refreshes them if necessary.
- Splash screen fade-in simplified to improve start-up message readability.
- ComfortClient and FloorplanEditor command line arguments are feature aligned. You may need to update some of ComfortClient Windows shortcuts that used the old format arguments; principally the “-F” no fade-in switch.
- Opening the Modbus Console (Modbus plugin) from the Status bar or main menu now longer asks for UAC confirmation.
- System Information refresh is now requested from Comfort on entry to the window. The System Info window is not available whilst a full Refresh is in progress (logon or Refresh button).
- Setting the Activity level to zero also suppresses the Activity Tab Log entries; previously it only suppressed the Tab icons.
- The minimum size of a resized object in Floorplan Editor is now 4 points. The sizing grab handles are intelligently placed to facilitate this; outer corner handles disappear as necessary on smaller objects.
- The Refresh, Sound and LockUI Buttons are moved from the main form to the Application Menu.
- The Floorplan Editor Floorplan workspace now resizes (to recover freed space) as the Ruler and (new) Toolbar strips are hidden or restored.
- Improved memory footprint for all applications.
- Other miscellaneous minor & cosmetic UI fixes.

NEW FEATURES

- New Floorplan rendering engine for both the ComfortClient and Floorplan Editor. Floorplan objects are now constructed from the “ground up” allowing for some great new features, included (below) in this release (opacity, transparency) and in future releases (auto scaling, rotation etc.).
- Floorplan Editor is now separated from the main ComfortClient application and can either be started from within the ComfortClient or as a standalone application.
- New Toolbar (icon) strip in the Floorplan Editor.
- Support for Picture, Label and Gauge object opacity (0 – 100%) in the ComfortClient.
- Support for Picture, Label and Gauge object background transparency in the ComfortClient.
- Better separation of installed samples in the ComfortClient environment; they now use a separate Configuration file and dedicated shortcuts on the Desktop and Start menu.
- Gauge preview (including GaugePack Styles) now allows you to view Gauge designs as you build them or browse existing designs available in GaugePacks.
- Support for multiple configurations. New command-line argument that can be used in shortcuts to launch the specified configuration; `-C={ConfigFilename}`
- Current Floorplan size (W/H) is shown in Status Bar in Floorplan Editor and updates on resize.
- A Modbus actions menu is now available from the status bar Modbus LED indicator area.
- Gauge and Label Fonts now support *underline* and *strikeout* properties.
- Align Objects (*Left, Centre, Right, Top, Middle, Bottom*) is now available in the Floorplan Editor.
- Undo (last step) is now available in the Floorplan Editor.
- Save button on the Monitor Panel or Snapshot Panel respectively now allows save to Word 2007 (docx)**, Rich Text (rtf) and Text (txt) files. Saved files are now automatically opened by the associated editor once save has completed. ** Note: *Docx (Open XML) is enabled when the optional DocumentFormat.OpenXml.dll file is copied to the ComfortClient's root folder.*

- New Alert Buttons for Panic & Fire in ComfortClient.

Version 1.21.1.85 - 16 Jul 2010

ARCHITECTURE

- Microsoft .NET 3.5 console application developed under Visual Studio 2008

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 5.199, File System – 34
- UCM05 Firmware – 5.212

BUG FIXES/CHANGES

- Negative values can now be selected for Gauge Range start and end values.
- ComfortClient current window size was incorrectly saved to the configuration file at close when the closing from a minimised state.
- Home Control menu would error at start-up if phrases were present at menu level 3 but not at higher levels.
- Tooltips not showing on ComfortClient status bar items.
- Monitor Log and Event Log panels are now rewritten. Full width highlighting is available. The Monitor Log size now defaults to 5000 rows before the panel switches to FIFO mode; this can be increased to 32000 max via direct edit of the ComfortClient configuration file.
- System Information menu item now subject to the PersistConfigurationMenu option and only otherwise available when signed in. It can also now be closed with the Red “X”.
- Password length between 4 and 6 digits is now enforced.
- Decode of minor version part of u? response; did not insert a leading zero when single digit.
- The AutoSave option can now have an interval of between 10 and 3600 seconds (1 hour).
- The Monitor Log panel did not show any entries during FastStart mode (ie the first time the Client was run) due to the log size incorrectly defaulting to zero. Did display OK for 2nd run onwards.

NEW FEATURES

- ComfortClient can now be started with command line parameters. This is added mainly to improve the user experience when running over a WAN. Using these in conjunction with windows shortcuts enables the Client to be started differently. For example over Remote Desktop (RDP) connections the fade-in on the splash screen can slow down start-up significantly; the **-F** argument turns this off. Run “ComfortClient.exe /?” for a full list of the current arguments.

Version 1.21.1.65 - 20 Jun 2010

ARCHITECTURE

- Microsoft .NET 3.5 console application developed under Visual Studio 2008

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 5.195, File System – 34
- UCM05 Firmware – 5.212

BUG FIXES/CHANGES

- Fixed bug in FastStart mode where it would try to refresh all objects even though the user wasn't logged in yet. Also refactored the code to improve stability and user experience.
- The Blank.xml file was set to read-only in the distribute zip which caused write errors on save.
- Save to GaugePack would fail if the FONTS directory was empty.
- Some Gauge attributes had an entry range of 0 – 500 which could limit the building of certain Gauge designs.
- The "Max Drift" default for date/time synchronisation on newly created Configurations (i.e. via FastStart) should be 5 (minutes).
- Connection AutoStart is now defaulted to Disabled for FastStart created configurations.
- Keypad digits 0 – 9 are now greyed out before a connection is established. This prevents users from thinking they can sign on before connected.
- In Floorplan Editor, newly added Pictureboxes, Labels and Gauges were not added to Floorplan on OK if no other of the object's properties were changed.
- Fixed issue in building fonts when the Private Font collection was empty.

Version 1.21.1.64 - 19 Jun 2010

ARCHITECTURE

- Microsoft .NET 3.5 console application developed under Visual Studio 2008

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 5.195, File System – 34
- UCM05 Firmware – 5.212

BUG FIXES/CHANGES

- Monitor Log Snapshot panel now will scale as the window is resized and scrollbars are added automatically as required.
- The dialog box, when changing the Click Response Type, stated incorrect button labels.
- Changing the Comfort Object Type did not correctly set the Activity Level to the correct initial state (Auto).
- Inserting a new Picturebox or Label did not correctly set the Activity Level to the correct initial state (Auto).
- When changing ClickResponse Types in Floorplan Object Properties, pressing CANCEL on the popup window did not back out changes correctly.
- Disconnection attempts incorrectly completed on "Max Retries + 1" instead of "Max Retries".

- Dropdown list on Custom Tabs now show as “None” instead of blank on first setup.
- Sounds did not play for Sensor and Counter Floorplan object types.
- Smartfit Tab buttons now disabled if Smartfit UCM is not installed.
- Control Menu tree did not correctly rebuild from other program threads. Removed the manual “Refresh” button from the form now that this is fixed as the feature is now fully automated.
- Improved start-up splash screen; revised layout with progress bar and start-up phase messaging and now fades-in.
- Creation of a new Floorplan via the NEW menu command would sometimes error with a “file not found” error.
- It was sometimes not possible to move objects in the editor after selection. Maximising the screen was a workaround. Corrected incorrect calculation of current screen bounds.
- Updated the Query Report in Floorplan editor to include all current attributes. Some were missing from previous releases.
- The Client now checks that the minimum required .NET Framework version is installed. Version 3.5 in this release. It will still allow continuation if a previous version is found but this is not recommended as the Client may not work as designed and tested.
- Reduced screen flickering on object redraw in the editor.
- Monitor Tab: Typed commands would produce an exception if less than 2 characters.
- System Sound Manager completely rewritten to improve scalability and performance.
- System Sounds now supports filters.
- Sound On/Off button on Client Keypad ignored enable/disable states set in (System) Sounds Manager.
- Cancel button now added to “Activity Level Monitoring” form.
- Improved TCP connection timeout when UCM cannot be contacted.
- KD (Keypad) commands are now secured (KDxx) in the Monitor and log files when digits 0 – 9 are pressed to improve security as these digits can otherwise be used in the determination of the user’s security code.
- Fixed adding new Label, Picturebox or Gauge objects incorrectly dirtied the Object Properties form on opening and subsequently immediately pressing cancel without any further changes.
- Alarm type is now checked (a?) when logging on.
- AM and AR were incorrectly decoded as DEC values instead of HEX for Alarm Type.
- Duress type alarms do not now create alarm states in the ComfortClient UI as this could compromise the security of the user. Instead a grey LED icon on the Connection TAB is the only visible indicator. Click this to hide or logon again. The log file still logs the real condition. Ensure the System Sound for the duress condition is disabled or phrase changed if you are upgrading!
- Clear button on the Monitor tab now also clears the command history (dropdown list).
- Refresh button and initial UI update (at logon) is now moved to a separate thread such that it is non-blocking; the user can carry on using the UI whilst the refresh is in progress.
- Checking the override Comfort IP address checkbox no longer also checks the LAN IP address override.
- Checking (changing state) of the LAN IP address override checkbox will now refresh the adaptor list. This caters for scenarios where LAN adaptors are enabled after the client is started (ie VPN).
- A new queuing mechanism has been coded for writes to the External Log file to better cater for the multi-threaded nature of the ComfortClient.
- ComfortClient now remembers the currently selected window tab when logging out instead of returning to the first window tab.

- CBUS Action Codes created via ClickResponses in Floorplan Editor now don't include the ramp level and application if the command is of type "Lighting" and when action types are On (121) or Off (1). This has been added to support later Comfort CBUS firmware.

NEW FEATURES

- Added Ruler & Grid functionality in Floorplan Editor
- Added Snap-to-Grid option for single selected objects in Floorplan Editor.
- Added new "Options" window the Settings menu to define:
 - Window Tabs Location; Top, Bottom, Left or Right (default) edges of panel.
 - AutoSave Interval and enable/disable status
 - Configuration Menu availability before logon
 - Auto Connection (to UCM) at start-up
 - Date & Time Synchronisation based on PC time
- New Condition Manager added to Floorplan Editor and Client respectively. Complex AND/OR conditions can now be created to affect certain Floorplan and System objects.
- Monitor Exclusions List added. Can now exclude items from the Monitor, Activity, Status and External logs via pattern matching logic. Helps to filter out unwanted or low impact traffic; for example keepalives.
- Added support for Gauges on Floorplans. Complex gauge designs can now be created in the Floorplan Editor.
- Support for "GaugePacks"; predefined Gauge Styles can be created/loaded and thus shared via the community.
- Border Styles are now available for Labels.
- A Browser button panel now appears in the top menu bar when a Browser Tab is selected; Home, Back, Forward, Refresh and Stop buttons are available.
- Added System Information window; shows the versions of Comfort and other discovered modules in the Comfort system; Slaves, UCMs, Keypads, Doorstations & SCS/RIO.
- Support for the "new" (optional) Modbus Plug-in. The separate Modbus module can now update objects on Floorplans.
- Added "Set Comfort Date/Time" option to the Configuration Menu to sync Comfort with the PC's time and date.

KNOWN ISSUES

- Comfort firmware versions affect the level of the module information returned and displayed by the "System Information" menu option. This is typically, but is not limited to, older Cytech modules which respond incorrectly or if at all to a "u?" request.

Version 1.20.2.35 - 30 Nov 2009

TESTED WITH COMFORT VERSIONS

- Comfort II Ultra Firmware – 5.180, File System – 34
- UCM05 Firmware – 5.200

BUG FIXES/CHANGES

- Fixed pasted objects (Pictureboxes or labels) could not be moved by dragging the cursor. Floorplan had to be saved and reloaded before pasted Items could be dragged.
- Lock/Unlock, Paste & Delete did not always set the Save check as dirty in the Floorplan Editor.
- On exit from the Floorplan Editor the focus now returns to the selected Window (previously always returned to the first window Tab).
- Disable "Clear Log" and "Save Log" buttons on Monitor Tab until logged on.
- Fixed "File\New" menu action not creating a valid Floorplan file in Floorplan Editor.
- EX response (Entry/Exit Delay) system sound incorrectly reported the "delay in seconds" value.
- BY response (Bypass) system sound incorrectly reported the zone number as zero.
- Reset Keypad Emulation to unchecked on log off.
- Status bar entries now auto resize when the main Client window is resized.
- Window Tabs (Floorplan's) are now reset to original/default state on log off.
- A copy of the Client configuration file is now created on start-up (ComfortClientConfig.xml.last) and can be used if the main config. doesn't load as expected. This will be overwritten each time the client is started.
- MD response (Security Mode) system sound now can include the User causing the change.
- Pressing the "Enable Override" button on Smartfit Tab would fail with arithmetic error for some set point values due to incorrect rounding logic.
- Rewrite the Event log Fetch command to build the results panel on-the-fly.
- Updated tab order on all windows for better keyboard navigation.
- System Alarm Reports (AM) incorrectly showed parameter in Hex in status bar.
- For CBus Templates on the ClickResponse Tab in Floorplan Editor, if a user selects 'Enable Control' from the Application Dropdown, then the CBus Action will automatically be set 'Instantaneous Ramp' and no other action option must be available to the user. The "Value" field label will also change from 'Ramp Level' to 'Value'. This brings the functionality in line with normal CBus documentation.
- Date Time Reports are now decoded to normal date notation in correct regional date format when displayed in status bar and log files. i.e. 'mm/dd/yyyy hh:mm:ss' and 'dd/mm/yyyy hh:mm:ss' for US and GB dates respectively.
- Improved timed clearing of Window Activity Tab icons.
- Setting keypad/control toggle button (top right in menu bar) to "BOTH" now automatically displays both panels. Previously the Keypad and Control had to additionally be pressed to display each panel.
- Counters on the Smartfit Tab are now cleared on logout.
- Naming convention change; "Comfort Properties" changed to "Object Properties" in Floorplan Editor.
- Improved the FastStart logic when the application is started for the very first time or if no Client configuration file is found.

- New countdown splash screen on exit for tidy logout/shutdown.
- Fixed maximum selected objects value was not correctly reset when opening a new or different floorplan.
- Fix badly formed (or unexpected) responses from crashing the system or entering a logon loop.
- On start-up the commands to interrogate Zone and Output feedback counter types defined in the Comfort Home Control Menus were incorrectly formed. Sensor and Counter types were functioning correctly.
- Correct Connection Retry logic so that it would not retry at start-up or on manual connection requests.
- Other minor aesthetic corrections and alignments to the UI's in the modules.

NEW FEATURES

- Windows 7 RTM version is supported (32 and 64bit).
- Added "Save Log" button to the Monitor Tab.
- In the Floorplan Editor, Object Settings window, Size & Position is now moved (from the Image Tab) to the top section of the panel. The size and position can now be fine-tuned by changing these values though this should be used with care. Size values cannot be changed below 10 (same as with mouse control sizing), position coordinates below 0.
- Sound Manager added to allow configuration of System Sounds.
 - Enable/Disable Sounds (as triggered by incoming Comfort Responses/Reports)
 - Display Phrases and Test (Play).
 - Edit Phrases. System Sound Phrases are now stored in the ComfortClient configuration file.
- Command Line field on the Monitor Tab now has command history. Commands are added to the history dropdown on press of SEND and the field cleared. The CLEAR (command) button has been removed as it is now redundant.
- On Client start-up, sign-in focus is on the user code field. Type the user code plus ENTER keys will now log you in. Once logged in the ESC key can be pressed to quickly log out.
- The UI can now be locked/unlocked with password protect. Designed such that devices such as touch screens etc can be left logged in. All received responses continue to update the UI as normal; it's just the UI input that is blocked. The exceptions are ClickResponses on the Floorplan which remain enabled.
- Logon time in Days:Hours:Minutes is now also shown on the status bar.
- Keypad LED's can now be announced by System Sounds
- Added support for FLAGS. The comfort commands/reports "F?", "F!" and "FL", implemented in Ultra II firmware version 5.180 (and onwards) is now supported in the Client. If using a firmware prior to 5.180 the FLAG reports will be ignored; use COUNTERFLAGS instead.
- Floorplan object types "COUNTERFLAG" and (the new) "FLAG" now support mirror sounds.
- Added support for Doorbell (DB) press, including in System Sounds. Includes support for "FF" which is new in Ultra II firmware version 5.180 (and onwards).
- Added support for Alarm Restored Reports. These share the same system sound phrases as "System Alarm Reports" but you can prefix and/or postfix additional phrases to differentiate. The default is a postfix of "Restore" and no prefix.
- Clipboard in the Floorplan Editor now remains active when switching between floorplan's whilst still within the Editor. This allows one to cut and paste between floorplan's. This feature is limited at present but will become more useful with multiple object Copy&Paste (to be released in a later version).

- “Send Message” and “Receive Message” statuses in the status bar now time out after 5 seconds respectively (and separately) if no other activity creates a new status update in that period.
- Added basic support for Beeps (BP) when in Keypad emulation mode.
- Checkbox added for Auto EventLog fetch on user logon.
- Added better handling of dropped connections. Client will now attempt to restore the connection and current user logged in. Retry limits (10) prevent the client from looping endlessly for fatal networking issues that can't be repaired (at least by the client).
- Last Alarm Message reported now appears on the Connection Tab and the UI automatically changes focus to this tab to alert the user.
- New snapshot button for monitor window. Save to RTF format. Initial colour coding of entries which will be enhanced over further versions and with additional decoding by text and colour.

KNOWN ISSUES

- None.

Version 1.20.1.30 - 13 Jul 2009

BUG FIXES/CHANGES

- Changed rounding logic to improve decimal to Integer accuracy; was previously “math.floor”.
- Fixed null reference if UCM # in Template Action Code string didn't match those currently available (unlikely to occur in normal operation but trapped during testing anyway!)
- ClickResponse hover texts could fail to show in certain circumstances after exit from Floorplan Editor.
- Fixed cursor sizing handles now on all borders of Editor to resize the form. Previously only sizable via bottom right corner handle.
- Delete Objects didn't completely remove all references in the internal code (arrays).
- Changed minimum object size from 20 to 10 pixels for (re)sizing operations. Lower than this and the sizing handles overlap too much and get difficult to pick.
- Fixed issue that receive message statuses were not shown on the status bar if they occurred in rapid succession. Whilst this is a MS refresh issue I'm now forcing a refresh after each message so you see more dynamic status bar messaging.
- User codes are now masked in monitor window and in log file for “M!” and “m!” commands.
- Improved logic around “KeyArm Local” and “Keypad Emulation” with regard to Security Mode Buttons.
- Application Beeps in Editor and Client are now subject to “Sound Enabled” button state. System Beeps (in message boxes) still occur as these come courtesy the Operating System; I'll try to program around this MS feature in future releases to switch these off too!
- Drag and drop of unsupported image file formats onto the Editor window is now trapped.
- Floorplan filenames are now selected in Window Manager via dropdown list. Floorplan must be stored in the same folder as the ComfortClient.exe. This results from now storing the Floorplan filenames as relative path filenames in the Client XML configuration file to simplify administration. Floorplan files are validated for type before being displayed in the dropdown list.

NEW FEATURES

- New menu layouts for Client and Editor:
 - Improved grouping of “like” actions

- Menu Images
- Menu Separators
- Keyboard Shortcut and Accelerator keys added
- Improved status strip messages and layout in Client and Editor
- Added support for multiple selections (single click works as before):
 - Use “Select All” from any of the menus
 - Hold Ctrl and press mouse Left-Click to select multiple items
 - Use “Rubberband” selection. Use mouse Left-Click and drag the rectangle around the objects to select. Note: if you start Rubberband selection from the workspace (Floorplan) then use mouse Left-Click, if starting from within a floorplan object then use the same mouse click but ALSO hold down the SHIFT button.
- Added support for multiple actions for multiple sections (as described above):
 - Bring to Back, Send to Front
 - Lock and Unlock
 - Delete
- Added support for Sound on Floorplan objects:
 - All object types except static Labels and Pictureboxes (*Image* and “Label*”). Sound for static objects is supported through through ClickResponses.
 - Uses phrase WAV files (i.e. “Kate”) that can be downloaded from the Cytech website: http://www.cytech-technology.com/temp/software/kate_voiceproc.zip
 - Up to 6 phrases can be setup (Mirror Sounds optionally add another 6).
 - Supports dynamic value announcement, principally used for types “Counter”, “CounterFlag” and “Sensor”, where the announced value is in the range 0 – 255. Dynamic values can be embedded anywhere in phrase strings and multiple times.
 - Added Sounds Enable/Disable button to keypad.
 - Added Support for “Mirror Sounds”. Principally for Floorplan designs using a single “active” object for on/off state and a base Floorplan mirror image, “Mirror Sounds” are setup on the base dynamic object but fire on the counter-state.
- Added support for System Sounds (sounds generated via reports from Comfort):
 - Types currently supported: *AlarmTypeReport*, *SystemAlarmReport*, *BypassReport*, *DateTimeReport*, *EventLogRequest*, *ArmReadiness*, *EntryExitDelay*, *UserLogon*, *SecurityModeReport*, *EngineerCodeReport* and *GetAlarmState*. See the help file for further details.
 - Sounds can be filtered using keyword settings (Hex bitwise maps) in the Client configuration file; see the <Sounds> section. These are created and defaulted to all enabled on first start. In future these granular settings will be settable via the main Client UI but for now can be fined tuned in this file. See the help file for further details.
- Close “X” Button now available/enabled when exiting the Floorplan Editor. It will still check and prompt to Save if changes made.
- Added “Save & Exit” menu item to Floorplan Editor
- Client now reads and uses Comfort (Comfigurator) authorisation levels for access to certain features:
 - Security Mode Changes: Adheres to comfort “User Authorisation Properties”, **Local Arm**, **Local Disarm**, **Remote Disarm**, **Remote Arm** respectively.
 - Floorplan ClickResponses: Adheres to comfort “User Authorisation Properties”, **Home Control**.

- Control Menu Tab: All Buttons adhere to comfort “User Authorisation Properties”, **Home Control**.
- Monitor Menu Tab: All Buttons adhere to comfort “User Authorisation Properties”, **Program**.
- Event Log Menu Tab: All Buttons adhere to comfort “User Authorisation Properties”, **Security Menu**.
- Custom1 and Custom2 Tabs: Execute Button adheres to comfort “User Authorisation Properties”, **Home Control**.
- The “Configuration” menu in the client is now disabled until logged in and then adhere to comfort “User Authorisation Properties”, **Program**. Only exception is during “FastStart” mode when the menus are unlocked for initial setup. If you want to override this so that the menu is always available then put the following key in the Client XML file (add the Authentication Section too if necessary. Note: Starting and exiting this version of the client will automatically add this section/key for you, but not the key for security reasons!):
<Authentication PersistConfigurationMenu="True" />

KNOWN ISSUES

- Sound Setup on static Object Types (*Image* & *Label*) have no effect at runtime UNLESS the object ALSO has a ClickResponse. This is by design.

Version 1.0.19.4 - 14 Jun 2009

BUG FIXES/CHANGES

- File Settings Form no longer forces a window refresh if the Cancel button is pressed and values are returned to original values.
- Single and Bulk Unlock/Lock, Bulk Activity Level actions could cause some attribute values to be lost. Now all attributes are correctly preserved.
- An exception could be raised with Template ClickResponses if the “Build Action Code” or “Ok” button was pressed when some component values were still blank.
- Switched Home Control Tab to fire Responses using “R!” rather than “DA”; this is due to DA’s current limitations of max 24 or 36 bytes on Comfort 1 and 2 respectively and ability to support more complex response strings.
- The splash screen is now displayed for longer to suit faster processors.
- Window Manager did not correctly reset Settings Changed flag on Cancel Button.
- Some general low risk code tidying and refactoring.

NEW FEATURES

- UCM type is now also shown in the UCM dropdown list for Click Response Templates.
- CBUS “Applications” are now selected via a dropdown list. Custom Applications can also be defined via XML keys in the Floorplan XML file. The setting of Custom Applications will be available via the UI too in future versions.
- Client will now remember its last (X, Y) screen position. Also will prevent against being placed outside of screen bounds (i.e. when screen resolution changed etc...)
- Floorplan Editor now remembers its last (X, Y) screen position. Also will prevent against being placed outside of screen bounds (i.e. when screen resolution changed etc...). Saved on a Floorplan specific basis. Note that you must save the Floorplan for this setting to be changed.
- In the Floorplan Editor the 4 keyboard arrows can be used to move selected (unlocked) objects.

- Change: Scheduler1 has now been changed to remove the automatic re-query of statuses as this is redundant. Use the manual "REFRESH" button on the keypad if you want to force this at any time (though you shouldn't have too). The initial query all statuses on status is still in place.
- Scheduler1 is now used to perform an automatic save of the Client XML Config file. This defaults to every 5 minutes though it can be changed in the XML configuration file too:

```
<Scheduler1 Enabled="True" RefreshTime="300000" />
```

Version 1.0.19.3 - 7 Jun 2009

BUG FIXES/CHANGES

- Improved trapping of duplicate entries in the Window Activity Tab Hover Logs when multiple objects linked to the same Comfort responses.
- In Floorplan Editor, if the SAVE menu option was used to save changes then the Floorplan would not refresh in the main Client on exit if no other changes were subsequently made.
- Check for unsaved changes now performed when NEW, OPEN and SAVEAS menu actions performed in the Floorplan Editor.
- Fixed cursor only changes to hand icon when placed over Floorplan icons having ClickResponses.
- Slightly revised Control Pad sizing to fit better at 1024x768 with both Keypad and Control Pad are displayed concurrently on Windows 7 (which has deeper taskbar). 800 x 600 is the minimum recommended resolution as achieved using the key/control panel toggle modes.
- Monitor log window automatically clears when total size of entries reaches 32767 characters.
- Disable red close "X" button on forms that have multiple exit button choices; CANCEL, OK etc.
- Re-grade some dialog boxes from Critical "X" to Exclamation "!" status.
- Floorplan counter (typically %) values are now rounded to nearest integer value.
- If you save a label with blank value the Editor will now add "..." so you can find again on the Floorplan. All static labels should obviously have values, but labels where data is replaced by runtime values can have any default text at start (though this will be shown at logged out stage).
- If Floorplan or Config XML file save operations fail then the previous version of the appropriate XML file will be restored. No more trashed config files if the save fails part way through. The Floorplan and Config backup files are the same name as the base xml file but with extensions "FPE" and "CCC" respectively. These will be deleted once the save has completed successfully so you would not typically see these in normal operation. Note though that is additionally best practice to separately back up your configuration files manually too!
- Switched Custom Tabs to fire Responses using "R!" rather than "DA"; this is due to DA's current limitations of max 24 or 36 bytes on Comfort 1 and 2 respectively and ability to support more complex response strings.
- The Floorplan Editor window will open at the size set at the time it was last saved.
- Status bar text was not correctly reset from previous SAVE when re-entering Floorplan Editor for edits on subsequent Floorplans.
- Main Client application now has correct keyboard focus at start up.

NEW FEATURES

- ClickResponse Hover over help/messages are now configurable.
- Control-V and Control-C key combinations are now supported in Floorplan Editor.
- Custom ClickResponse Action code strings now available. Action Code strings are validated for correct syntax but not content.
- Template ClickResponses; ZWave and C-BUS initially supported. Others later or by request.
- Added individual Object Lock/Unlock. Locked object edge markers show as red whereas for unlocked they are white. Locked objects cannot be moved, scaled, deleted or moved in z-order plane. Object attributes can be changed whilst locked and they can be copied and pasted (pasted object copies will be set to unlocked).

- Added bulk actions to lock and unlock all objects.
- Added colour to Query results in Floorplan Editor to better separate values.

Version 1.0.19.2 - 25 May 2009

BUG FIXES/CHANGES

- None.

NEW FEATURES

- XML configuration files are now saved in more readable/editable format (CR & Indented).
- Added Copy & Paste actions in Floorplan Editor.
- Scheduled polling frequency and activation status can be changed by editing the XML config file; see keys "General/Configuration/Schedulers/Scheduler1/RefreshTime" and "General/Configuration/Schedulers/Scheduler1/Enabled". Open and close the Client and the XML will be automatically upgraded with these keys.

Version 1.0.19.1 - 24 May 2009

BUG FIXES/CHANGES

- Timestamp on Monitor entries didn't pad fill leading zeros.
- Fixed a few minor cosmetic UI issues.
- Fixed issue where Custom Tab names would be blank if no saved settings for the Tabs.
- Fixed Event Log Abort button not working if pressed early in FETCH cycle.
- Fixed Smartfit UCMID not read correctly from XML saved config.
- Fixed error "* Load: Error parsing ComfortClient config" on Monitor window when "ComfortClientConfig.xml" did not exist (Typically in FastStart or upgrade from pre 1.0.17.0).

NEW FEATURES

- Activity Monitor added to Window Tabs:
- 3 levels (colours/icons), configurable in Floorplan Editor on a per object basis
 - Hover over rolling activity log history per Window Tab
 - Configurable setting defaults in ComfortClient via new menu option
 - New Bulk Actions Utility in Floorplan Editor via new menu option
- Revised "Report" window in Floorplan Editor.
- Added CounterFlags Type for Label Objects (previously just for PictureBoxes).
- New "Is Percentage" option for Counter Object Types.
- New "Value Format" option for Counter Object Types (extendable to other Object Types in Future versions).
- Improved logging information to log file, status bar and hover window logs; more lookups and handling of bitmap responses (Z,z,Y,y types)
- Floorplans do not rebuild now in main client on exit from the Floorplan Editor unless the floorplan is changed/saved.
- New CANCEL button added to Window Manager. Window Tabs will only rebuild on exit if the window tab configuration has changed.
- New CANCEL button added to Floorplan Editor Object Settings window.
- Double-Click a selected item in Floorplan Editor now opens Floorplan Object Settings.
- Scheduled Poll (every 5 mins hardcoded at present) is paused whenever the user is in the Floorplan Editor or Window Manager. Scheduled poll refreshes all items on the Floorplan where necessary.

Version 1.0.18.3 - 4 May 2009

BUG FIXES/CHANGES

- Corrected issue with X10 feedback not shown on Control Menu tree.

NEW FEATURES

- Increased amount of feedback onto status bar & convert to Dec from Hex.
- Timestamp [hh:mm:ss] added to Monitor window entries.
- It is now possible to TAB to next field on the Connection Tab using the enter key.

Version 1.0.18.2 - 3 May 2009

BUG FIXES/CHANGES

- Fixed issue with horizontal scrollbar missing. It was enabled but hidden behind the status bar.
- Status bar now stretches/shrinks correctly.

NEW FEATURES

- Keypad and Control panel show/hide method now changed to buttons from check boxes.

Version 1.0.18.1 - 3 May 2009

BUG FIXES/CHANGES

- Saving a Floorplan when the visible area is scrolled (top left is now not 0,0) would store the objects at the scrolled state. Scroll state is now reset to 0,0 before saving.
- Right-Click menu on Floorplan (not Objects) was incorrectly disabled in a recent build.

NEW FEATURES

- Keypad and Control panels can now be hidden if required to maximise screen use and when used on devices with lower screen resolutions.

Version 1.0.17.4 - 26 April 2009

BUG FIXES/CHANGES

- Status bar text not changed to "User Logged Off" when forced disconnects occur.
- ClickResponses did not work for Response Numbers > 255.

NEW FEATURES

- None.

Version 1.0.17.3 - 26 Apr 2009

BUG FIXES/CHANGES

- Custom Tab filter list trees incorrectly showed Responses with blank actions (no match).

- Log on button text not changed when forced disconnects occur.
- Minor background colour fix on status bar messages.

NEW FEATURES

- Support for Bypass Reports (“BY”).

Version 1.0.17.2 - 25 Apr 2009

BUG FIXES/CHANGES

- In Editor, newly added objects were not added to landing zone in front of other objects.
- Custom Tabs now have shorter tab title (1 or 2) when unconfigured.

NEW FEATURES

- None.

Version 1.0.17.1 - 25 Apr 2009

BUG FIXES/CHANGES

- Fixed XML error in Monitor when Floorplan config. filename is blank; added a more friendlier error message.
- Fixed minor issue with keypad background colours being inconsistent.
- Custom Tab response filters now perform case independent matches.
- Configuration filenames were set to lower case on Save.
- Floorplan's loaded into the Editor had top region (depth of menu bar) clipped.
- Flickering of form when loading a Floorplan into the Editor for the first time after start -up. This was noticeable especially on slower PC's.

NEW FEATURES

- Images added to Window tabs; “House” icon for Floorplan and Internet Explorer icon for Browser
- Add Type “None” to Custom Tabs dropdown.
- Both the ComfortClient and Floorplan Editor now check for a valid configuration file. Ensure you open any existing Floorplans in the Editor and Save them as I will tighten these checks further in future versions post 1.0.17.1.
- Improved performance when loading Floorplans in the Editor and main Client.
- Some more work on the Help File.

Version 1.0.17.0 - 18 Apr 2009

BUG FIXES/CHANGES

- BringToFront was not working in Floorplan Editor.
- Selection Handles now left on Object when exit Comfort Properties form. Click another object to change selection or Floorplan background to deselect.

NEW FEATURES

- Multiple Window tabs are added. Windows can be Floorplans or Browser panels. Use browser panels for example for Webcam feed presentation.

- Custom Tab Panels (2) added to the Control Panel.
- Client Configuration settings are now stored in an XML file rather than the User Settings feature of the Windows Profile; this make for a more flexible and scalable solution for storing user settings.
- Help File added. Still incomplete and a work in progress, with further detail to add over future releases.

Version 1.0.16.0 - 27 Mar 2009

BUG FIXES/CHANGES

- Last selected Comfort ID did not display correctly for Comfort Type SENSOR on the Comfort Properties form.
- Rework the Floorplan update logic as some objects were not updated correctly all of the time. Improved the internal storage of objects in the application as a result which should improve reliability as well.

NEW FEATURES

- Initial support for SCS & RIO (finished debugging initial support).

Version 1.0.15.0 - 27 Mar 2009

BUG FIXES/CHANGES

- Rework Event Log fetch and display to solve timing issues (hopefully!).
- Fix bug in Control Menu tree where EXECUTE button would be greyed on some items. This was introduced accidentally when feedback values were introduced in 1.0.10.0.

NEW FEATURES

- None.

Version 1.0.14.0 - 25 Mar 2009

BUG FIXES/CHANGES

- Event Log was not correctly cleared in between fetches.
- Improve UI recovery/state when Client unexpectedly disconnects (severed connection).
- "Hot Swap" of Floorplan via File Settings filename change incorrectly set UI back to Logged off state which is incorrect where logged in. Did not do this for prompted "Hot Swap" of Floorplan on leaving the editor.

NEW FEATURES

- Support for "CounterFlags" for PictureBox objects. If Comfort Type is "COUNTERFLAG" the Comfort State can be set to ON or OFF for a counter. A Counter value of 0 will equate to state "OFF" and hide the Picture and any other Counter value will equate to "ON" and show the picture.
- Improve the way query requests are sent so that requests aren't sent more than once; i.e. if Counter 10 is both on the Floorplan (even on the Floorplan more than once) and in the control menu Smartfit tab too then don't send request more than once. Principally on Counters and Sensors as Zones and Outputs queries are covered by a single status request ("Z?" etc).

KNOWN ISSUES

- Exception when reading Event Log (at the end of the fetch). You can opt to continue and the application will be OK. Occurs if the UCM is slow to send back event log items and the application starts to process what it thinks to be the fully received log. The background process sends out all of the outbound requests and expects timely responses. Most of the time this is OK but not always! I've added a short wait at the end of the fetch to help this as a workaround but I'll probably need to improve this if it's a recurring issue for some.

Version 1.0.13.0 - 20 Mar 2009

BUG FIXES/CHANGES

- Improved stability/consistency (debug) Floorplan Editor NEW, OPEN, SAVE. SAVEAS menu actions.
- Floorplan XML file load would fail if image referenced in the XML file was missing from the Images folder (either via corruption or manual/explicit delete outside of the application).
- Further cleanup of design objects when exiting the Floorplan editor.
- Sending a logon request with blank password incorrectly enabled the mode (alarm button) icons on the keypad. Still secure as without logon they wouldn't have sent commands to Comfort, but wrong functionality nonetheless.

NEW FEATURES

- User Settings are now preserved between versions (much needed!).
- Prompt user on whether to make edited Floorplan the ACTIVE Floorplan on Exit from Editor.
- Once logged on the previous user code value is cleared. Security enhancement so that users cannot leave their workstation logged out of the UCM but with the ability for someone to use the log on button again with the existing password.

KNOWN ISSUES

- Exception when reading Event Log (at the end of the fetch). You can opt to continue and the application will be OK. Occurs if the UCM is slow to send back event log items and the application starts to process what it thinks to be the fully received log. The background process sends out all of the outbound requests and expects timely responses. Most of the time this is OK but not always! I've added a short wait at the end of the fetch to help this as a workaround but I'll probably need to improve this if it's a recurring issue for some.

Version 1.0.12.0 - 19 Mar 2009

BUG FIXES/CHANGES

- Changed Add PictureBox dialog to show JPEG extension as JPG (was JPEG).
- Add PictureBox does not cause an exception if it is cancelled without picking an image.
- Cancel button added to FileSettings form now allows exit without configuration.

NEW FEATURES

- Added "NEW" button to Floorplan Editor FILE menu.

Version 1.0.11.0 - 18 Mar 2009

BUG FIXES/CHANGES

- Display event log could fail with a "Collection was modified; enumeration operation may not execute" error if the client started processing the returned events array before all event log items had been received in a timely manner.
- It is now possible to right-click the Floorplan white space to ADD objects or view the object report. Previously you had to have an existing item selected (which was wrong!).

NEW FEATURES

- Implemented click of Image and Labels on the Floorplan to trigger Comfort Responses; this feature has been named "Click Response". Cursor will change to "hand" when over Click Responses on the Floorplan and hover text will show the response name that will be triggered.
- Added PictureBox preview and size information on "Floorplan Object Settings" window (PictureBox Tab).
- Added ability to change an Objects Image via the on "Floorplan Object Settings" window (PictureBox Tab).
- It is now possible to save the Event log to a file (Event log Tab).

Version 1.0.10.0 - 17 Mar 2009

BUG FIXES/CHANGES

- Police log off from UCM on exit if not done by user.

NEW FEATURES

- Added Feedback statuses on Control Menu Tree View.
- Added support for Outputs/SCS/RIO.

Version 1.0.9.0 - 14 Mar 2009

BUG FIXES/CHANGES

- Added some extra monitor messages to try and trap user IDENTs problem with remoting

NEW FEATURES

- Added support for DELETE key press.
- Application window size is now remembered (saved to User Settings).

Version 1.0.8.0 - 13 Mar 2009

BUG FIXES/CHANGES

- Floorplan did not clear correctly on opening a new Floorplan. Improved the ClearFloorplan routine.

NEW FEATURES

- Add Support for Sensors (SCS Temperatures).

- Implement Celsius to Fahrenheit conversion and vice-versa for Comfort Types Counter and Sensor
- Moved configuration files from Connections Tab to menu item "Configuration > Settings > Configuration File Settings". Added new feature to select Floorplan configuration to run. All changes are saved to User Settings and available at next application start.
- Restructured the toolbar and right-click menus to make them consistent.
- Added "Move To Back" and "Move To Front" actions.
- Changed the Main Client and Editor forms so that they are now scalable and will deal better with different monitor resolutions. A minimum of 1024 x 768 is recommended. The editor will now open a workspace at the same size and the Main Client window (which is resizable).

Version 1.0.7.0 - 10 Mar 2009

BUG FIXES/CHANGES

- Could not de-select an object by clicking on the workspace (panel).
- Add label and deletes didn't set save flag (prompt) to "dirty".
- Workspace wasn't cleared correctly for Label Objects in Editor Load routine.
- Label Bold and Italic code logic was incorrectly handled in Editor Load routine.
- Menu option for Comfort Properties didn't work for labels (right-click menu did!).

NEW FEATURES

- Implemented Internal ID names for Objects. Name on the Object Attributes for is now for user to type a meaningful (optional) reference name (which is used in XML Config file). Duplicates are allowed.
- Improved Colour Picker for Label Object Attributes.
- Cancel button removed from Object Attributes form. To cancel, Exit form and then delete the object. Cleaner to do it this way in code.
- Improved object selection and de-selection.
- Implemented label text alignment (all 9 options) and label box auto size.
- Implemented label prefix and postfix for Comfort Type "Counter".
- Removed the need for "Instance #" attribute; now done programmatically.

Version 1.0.6.0 - 8 Mar 2009

BUG FIXES/CHANGES

- Fixed Drag and Drop not working with Relative Paths.

NEW FEATURES

- None.

KNOWN ISSUES

- Cannot de-select object by clicking the workspace.
- Error on drag and drop if destination file was open by another process.

Version 1.0.4.0 - 7 Mar 2009

BUG FIXES/CHANGES

- None.

NEW FEATURES

- Added Drag & Drop (inc multiples) for PictureBoxes.
- Added relative file paths in Config file for PictureBox Images.

Version 1.0.3.0 - 7 Mar 2009

BUG FIXES/CHANGES

- None.

NEW FEATURES

- All Bespoke code now removed from the main application (no code solution goal).
- New Floorplan Editor added.
- Menu Bar added.
- Smartfit Counter Mappings Menu Option.
- Splash Screens and About Boxes added.

Bespoke (HardCoded) Versions

(Versions earlier than 1.0.3.0 were bespoke code versions; i.e. configurable only via programming)

Version 1.0.2.0 - 1 Mar 2009

BUG FIXES/CHANGES

- Correct info output to log file for Comfort "RA" response.
- Corrected error when Comfort IP address blank (FastStart scenario).
- Improve IP Address matching logic of MakeConn routine.
- More code refactoring to simplify it down further (easier to follow).

NEW FEATURES

- Add initial support for Z? , z? , Y? and y? commands (bitwise driven status reports).
- Add GetHexBytes and Check IP Address functions.
- Automatically get Smartfit UCM ID from CCLX file & set Smartfit Tab accordingly.
- Configurator CCLX filename field moved to Connections tab (for FastStart) and clarity.
- Comfort IP Address and IP Port now read from CCLX file if available. WAN Override checkbox to override this if required (ie using External IP/domain name and port).
- Replace basic CCLX file and sound folder selection with browse dialogs and validation.
- Message box when the application first runs to explain "FastStart" process.
- X10 Tab now shows all X10 related responses from CCLX file. Bespoke X10 (light bulb) icon functionality moved to main floor plan panel; this is done to make control panel tabs now 100% generic so should work in any Comfort configuration (so long as you use CCLX based Configs.).
- Now reads FileSystem type from CCLX file to set Event Log Read Size.

Version 1.0.1.0 - 23 Feb 2009

BUG FIXES/CHANGES

- RoomTempSP OutOfRangeException crash on login when Room Temp override is zero.
- Fix log file error (WriteOutput) when sometimes exiting the application.
- Trap situation where PC IP address in user config settings is not valid.
- The "RA" response processing caused an exception under some circumstance .
- General code refactoring to improve readability.

NEW FEATURES

- Added new Event Log tab.
- Added new Control Menu tab.
- Restructured Smartfit tab.
 - Add Progress bars for "Demand" counters (0-100%).
 - Change Smartfit overrides dropdowns to match room unit notation.
 - Other minor aesthetic changes to layout.
- Add Heat On indication LED to floor plan (no ability to do same for HW though).
- Grey out more items/buttons when not logged in:
 - Smartfit Tab buttons and dropdowns.
 - Keypad Alarm mode buttons.
 - "KeyArm local" and "Keypad Emulation" checkboxes.

KNOWN ISSUES

- Exception in log file when cannot connect to Comfort IP address (i.e. the destination address is wrong or Comfort not responding etc). Can't see an easy way of testing for this!

Version 1.0.0.0 - 23 Feb 2009

BUG FIXES/CHANGES

- None.

NEW FEATURES

- First release.